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THE

CONDUCT

OF THE

UNDERSTANDING.

ву

JOHN LOCKE, Eso.

TO WHICH IS ADDED, AN

ABSTRACT

O F

Mr. LOCKE'S ESSAY

o N

HUMAN UNDERSTANDING.

CAMBRIDGE,

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THE

CONDUCT

OF THE

UNDERSTANDING.



SECTION I.

INTRODUCTION.

HE last refort a man has T recourse to in the conduct of himself, is his understanding; for though we distinguish the faculties of the mind, and give the supreme command to the will,

as to an agent; yet the truth is, the man which is the agent determines himself to this or that voluntary action, upon fome precedent knowledge, or appearance of knowledge in the understanding. man ever fets himfelf about any thing, but upon fome view or other which ferves him for a reason for what he does: and whatfoever faculties he employs, the understanding with fuch light as it has, well or ill informed, constantly leads: and by that light, true or false, all his operative powers are directed. The will itself, how absolute and uncontroulable foever it may be thought, never fails in it's obedience to the dictates of the understand-Temples have their facred images, and we fee what influence they have always had over a great part

part of mankind. But in truth the ideas and images in men's minds are the invifible powers that conftantly govern them, and to these they all universally pay a ready submission. It is therefore of the highest concernment, that great care should be taken of the understanding, to conduct it right in the search of knowledge, and in the judgments it makes.

The logic now in use has so long possessed the chair, as the only art taught in the schools for the direction of the mind in the study of the arts and sciences, that it would perhaps be thought an assessed that rules that have served the learned world these two or three thousand years, and which without any complaint

plaint of defects, the learned have rested in, are not sufficient to guide the understanding. And I should not doubt but this attempt would be cenfured as vanity or prefumption, did not the great lord Verulam's authority justify it; who not fervilely thinking learning could not be advanced beyond what it was, because for many ages it had not been, did not rest in the lazy approbation and applause of what was, because it was; but enlarged his mind to what might be. preface to his Novum Organum concerning logic, he pronounces thus, Qui summas dialecticæ partes tribuerunt, atque inde fidissima scientiis præsidia comparari putarunt, verissime et optime viderunt intellectum humanum. sibi permissium, merito suspectum esse debere. Verum infirmior omnino est malo medi-

medicina; nec ipsa mali expers. Siquidem dialectica, quæ recepta est, licet ad civilia et artes, quæ in sermone et opinione positæ sunt, rectissime adhibeatur; naturæ tamen subtilitatem longo intervallo non attingit, et prænsando, quod non capit, ad errores potius stabiliendos et quasi sigendos, quam ad viam veritati aperiendam valuit.

"They," fays he, "who attributed fo much to logic, perceived very well and truly, that it was not fafe to trust the understanding to itself, without the guard of any rules. But the remedy reached not the evil; but became a part of it: for the logic which took place, though it might do well enough in civil affairs, and the arts which consisted in talk and opinion, yet comes very far short of subtilty in the real performances of nature,

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and catching at what it cannot reach, has ferved to confirm and establish errors, rather than to open a way to truth." And therefore a little after he says, "That it is absolutely necessary that a better and perfecter use and employment of the mind and understanding should be introduced." Necessario requiritur ut melior et perfectior mentis et intellectus kumani usus et adoperatio introducatur.

SECTION II.

PARTS.

There is, it is visible, great variety in men's understandings, and their natural constitutions put so wide a difference between some men in this respect, that art and industry would never be able to mas-

ter;

PARTS.

ter; and their very natures feem to want a foundation to raise on it that which other men eafily attain unto. - Amongst men of equal education there is great inequality And the woods of Ameof parts. rica, as well as the schools of Athens, produce men of several abilities in the same kind. Though this be so, yet I imagine most men come very short of what they might attain unto in their feveral degrees by a neglect of their understandings. A few rules of logic are thought fufficient in this case for those who pretend to the highest improvement: whereas I think there are a great many natural defects in the understanding capable of amendment, which are overlooked and wholly neglected. And it is eafy to perceive that men are guilty of a

PARTS.

great many faults in the exercise and improvement of this faculty of the mind, which hinder them in their progress, and keep them in ignorance and error all their lives. Some of them I shall take notice of, and endeavour to point out proper remedies for in the following discourse.

SECTION-III.

REASONING.

Besides the want of determined ideas, and of sagacity, and exercise in finding out, and laying in order intermediate ideas, there are three miscarriages that men are guilty of in reference to their reason, whereby this faculty is hindered in them from that service it might do and was designed for. And he that restlects upon the actions and discourses

THE UNDERSTANDING.

REASONING.

courses of mankind, will find their defects in this kind very frequent, and very observable.

- 1. The first is of those who seldom reason at all, but do and think according to the example of others, whether parents, neighbours, ministers, or who else they are pleased to make choice of to have an implicit faith in, for the saving of themselves the pains and trouble of thinking and examining for themselves.
- 2. The second is of those who put passion in the place of reason, and being resolved that shall govern their actions and arguments, neither use their own, nor hearken to other people's reason, any farther than it suits their humour, interest,

or party; and these one may observe commonly content themselves with words which have no distinct ideas to them, though, in other matters, that they come with an unbiassed indifferency to, they want not abilities to talk and hear reason, where they have no secret inclination that hinders them from being tractable to it.

3. The third fort is of those who readily and sincerely follow reason, but for want of having that which one may call large, sound, round about sense, have not a full view of all that relates to the question, and may be of moment to decide it. We are all short sighted, and very often see but one side of a matter; our views are not extended to all that has a connection with it.

THE UNDERSTANDING. 11

From this defect I think no man is free. We fee but in part, and we know but in part, and therefore it is no wonder we conclude not right from our partial views. This might instruct the proudest esteemer of his own parts, how useful it is to talk and confult with others, even fuch as come short of him in capacity, quickness and penetration: for fince no one fees all, and we generally have different prospects of the fame thing, according to our different, as I may fay, positions to it, it is not incongruous to think, nor beneath any man to try, whether another may not have notions of things which have escaped him, and which his reason would make use of if they came into his mind. The faculty of reasoning seldom or never deceives those who trust to

it; it's confequences from what it builds on are evident and certain. but that which it oftenest, if not only, misleads us in, is, that the principles from which we conclude the grounds upon which we bottom our reasoning, are but a part, fomething is left out which should go into the reckoning to make it just and exact. Here we may imagine a vast and almost infinite advantage that angels and feparate spirits may have over us; who in their feveral degrees of elevation above us, may be endowed with more comprehensive faculties, and some of them perhaps have perfect and exact views of all finite beings that come under their confideration, can, as it were, in the twinkling of an eye, collect together all their feattered and almost boundless

THE, UNDERSTANDING. 13

REASONING.

relations. A mind fo furnished, what reason has it to acquiesce in the certainty of it's conclusions!

In this we may fee the reason why fome men of study and thought, that reason right, and are lovers of truth, do make no great advances in their discoveries of it. Error and truth are uncertainly blended in their minds: their decisions are lame and defective, and they are very often mistaken in their judgments: the reason whereof is, they converse but with one fort of men, they read but one fort of books, they will not come in the hearing but of one fort of notions: the truth is, they canton out to themfelves a little Golhen in the intellectual world, where light shines, and, as they conclude, day bleffes them:

them; but the rest of that vast Expansum they give up to night and darkness, and so avoid coming near They have a pretty traffick with known correspondents in some little creek, within that they confine themselves, and are dexterous managers enough of the wares and products of that corner with which they content themselves, but will not venture out into the great ocean of knowledge, to furvey the riches that nature hath stored other parts with, no less genuine, no less folid, no less useful, than what has fallen to their lot in the admired plenty and fufficiency of their own little fpot, which to them contains whatfoever is good in the universe. Those who live thus mued up within their own contracted territories, and will not look abroad beyond the

THE UNDERSTANDING. 15 REASONING.

the boundaries that chance, conceit, or laziness has set to their enquiries, but live separate from the notions, discourses and attainments of the rest of mankind, may not amiss be represented by the inhabitants of the Marian islands: who being feparated by a large tract of fea from all communion with the habitable parts of the earth, thought themselves the only people of the world. And though the straitness of the conveniences of life amongst them had never reached fo far as to the use of fire, till the Spaniards, not many years fince, in their voyages from Acapulco to Manilia brought it amongst them; yet in the want and ignorance of almost all things, looked upon themselves even after that the Spaniards had brought amongst

amongst them the notice of variety of nations abounding in sciences, arts and conveniences of life, of which they knew nothing, they looked upon themselves, I say, as the happiest and wifest people of the universe. But for all that, no body, I think, will imagine them deep naturalists, or folid metaphyficians; no body will deem the quickest fighted amongst them to have very enlarged views in ethics or politics, nor can any one allow the most capable amongst them to be advanced to far in his understanding, as to have any other knowledge but of the few little things of his and the neighbouring islands within his commerce; but far enough from that comprehenfive enlargement of mind which adorns a foul devoted to truth,

THE UNDERSTANDING. 17

affifted with letters, and a free confideration of the feveral views and fentiments of thinking men Let not men thereof all fides. fore that would have a fight of, what every one pretends to be defirous to have a fight of, truth in it's full extent, narrow and blind their own prospect. Let not men think there is no truth but in the fciences that they study, or the books that they read. To prejudge other men's notions before we have looked into them, is not to shew their darkness, but to put out our own eyes. Try all things, hold fast that which is good, is a divine rule coming from the Father of light and truth; and it is hard to know what other way men can come at truth, to lay hold of it, if they do not dig and fearch for it as for

for gold and hid treasure; but he that does fo must have much earth and rubbish before he gets the pure metal; fand, and pebbles, and drofs usually lie blended with it, but the gold is nevertheless gold, and will enrich the man that employs his pains to feek and feparate Neither is there any danger he should be deceived by the mixture. Every man carries about him a touchstone, if he will make use of it, to diffinguish substantial gold from fuperficial glitterings, truth from appearances. And indeed the use and benefit of this touchstone, which is natural reason, is spoiled and loft only by affumed prejudices, overweening prefumption, and narrowing our minds. The want of exercifing it in the full extent of things intelligible, is that which weakens

THE UNDERSTANDING. 19 REASONING.

weakens and extinguishes this noble faculty in us. Trace it, and fee whether it be not fo. The day labourer in a country village has commonly but a small pittance of knowledge, because his ideas and notions have been confined to the narrow bounds of a poor conversation and employment: the low mechanic of a country town does fomewhat outdo him; porters and coblers of great cities surpass them. A country gentleman, who leaving latin and learning in the univerfity, removes thence to his manfion house, and affociates with neighbours of the same strain, who relish nothing but hunting and a bottle: with those alone he spends his time, with those alone he converses, and can away with no company whose discourse goes beyond what claret

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and diffoluteness inspire. Such a patriot, formed in this happy way of improvement, cannot fail, as we fee, to give notable decisions upon the bench at quarter fessions, and eminent proofs of his skill in politics, when the strength of his purse and party have advanced him to a more conspicuous station. To such a one truly an ordinary coffee-house gleaner of the city is an errant statesman, and as much superior to, as a man conversant about Whiteball and the court, is to an ordinary shopkeeper. To carry this a little farther. Here is one muffled up in the zeal and infallibility of his own feet, and will not touch a book, or enter into debate with a person that will question any of those things which to him are facred. Another furveys our differences in religion, with

THE UNDERSTANDING. 21

with an equitable and fair indifference, and fo finds probably that none of them are in every thing unexceptionable. These divisions and fystems were made by men, and carry the mark of fallible on them; and in those whom he differs from, and till he opened his eyes, had a general prejudice against, he meets with more to be faid for a great many things than before he was aware of, or could have imagined. Which of these two now is most likely to judge right in our religious controversies, and to be most stored with truth, the mark all pretend to aim at? All these men that I have instanced in, thus unequally furnished with truth, and advanced in knowledge, I suppose of equal natural parts; all the odds between them has been the different scope

c 3 that

that has been given to their underfrandings to range in, for the gathering up of information, and furnishing their heads with ideas, notions and observations, whereon to employ their minds, and form their understandings.

It will possibly be objected, who is sufficient for all this? I answer, more than can be imagined. Every one knows what his proper business is, and what, according to the character he makes of himself, the world may justly expect of him; and to answer that, he will find he will have time and opportunity enough to furnish himself, if he will not deprive himself by a narrowness of spirit, of those helps that are at hand. I do not say to be a good geographer that a man should visit

THE UNDERSTANDING. 23

visit every mountain, river, promontory and creek upon the face of the earth, view the buildings, and furvey the land every where, as if he were going to make a purchase. But yet every one must allow, that he shall know a country better that makes often fallies into it, and traverses it up and down, than he that like a mill horse goes still round in the fame track, or keeps within the narrow bounds of a field or two that delight him. He that will enquire out the best books in every science, and inform himself of the most material authors of the feveral fects of philosophy and religion, will not find it an infinite work to acquaint himself with the sentiments of mankind concerning the most weighty and comprehensive subjects. Let him exercise the freedom of his rea-

fon and understanding in such a latitude as this, and his mind will be strengthened, his capacity enlarged, his faculties improved: and the light which the remote and fcattered parts of truth will give to one another, will so assist his judgment, that he will feldom be widely out, or miss giving proof of a clear head, and a comprehensive knowledge. At least, this is the only way I know to give the understanding it's due improvement, to the full extent of it's capacity, and to distinguish the two most different things I know in the world, a logical chicaner from a man of reason. Only he that would thus give the mind it's flight, and fend abroad his enquiries into all parts after truth, must be sure to fettle in his head determined ideas of all that he employs his thoughts

THE UNDERSTANDING. 25 REASONING.

thoughts about, and never fail to judge himself, and judge unbiassedly of all that he receives from others, either in their writings or discourses. Reverence or prejudice must not be suffered to give beauty or deformity to any of their opinions.

SECTION IV.

PRACTICE AND HABITS.

We are born with faculties and powers capable almost of any thing, such at least as would carry us farther than can easily be imagined: but it is only the exercise of those powers which gives us ability and skill in any thing, and leads us towards perfection.

A middle aged ploughman will fcarce ever be brought to the carriage

PRACTICE AND HABITS.

riage and language of a gentleman, though his body be as well proportioned, and his joints as supple, and his natural parts not any way inferior. The legs of a dancing mafter, and the fingers of a mufician fall as it were naturally without thought or pains into regular and admirable Bid them change their parts, and they will in vain endeavour to produce like motions in the members not used to them, and it will require length of time and long practice to attain but some degrees of a like ability. What incredible and aftonishing actions do we find rope dancers and tumblers bring their bodies to; not but that fundry in almost all manual arts are as wonderful; but I name those which the world takes notice of for fuch, because on that very account, they give

THE UNDERSTANDING. 27 PRACTICE AND HABITS.

give money to fee them. All these admired motions beyond the reach, and almost the conception of unpractised spectators, are nothing but the mere effects of use and industry in men, whose bodies have nothing peculiar in them from those of the amazed lookers on.

As it is in the body, so it is in the mind; practice makes it what it is, and most even of those excellences which are looked on as natural endowments, will be found when examined into more narrowly, to be the product of exercise, and to be raised to that pitch only by repeated actions. Some men are remarked for pleasantness in raillery; others for apologues and apposite diverting stories. This is apt to be taken for the effect of pure nature,

PRACTICE AND HABITS.

and that the rather, because it is not got by rules, and those who excel in either of them, never purposely set themselves to the study of it as an art to be learnt. But yet it is true, that at first some lucky hit which took with fome body, and gained him commendation, encouraged him to try again, inclined his thoughts and endeavours that way, till at last he insensibly got a facility in it without perceiving how, and that is attributed wholly to nature, which was much more the effect of use and practice. I do not deny that natural disposition may often give the first rise to it; but that never carries a man far without use and exercise, and it is practice alone that brings the powers of the mind as well as those of the body to their perfection. Many a good poetic vein

THE UNDERSTANDING. 29

PRACTICE AND HABITS.

vein is buried under a trade, and never produces any thing for want of improvement. We fee the ways of discourse and reasoning are very different, even concerning the same matter, at court and in the university. And he that will go but from Westminster-hall to the Exchange, will find a different genius and turn in their ways of talking, and yet one cannot think that all whose lot fell in the city were born with different parts from those who were bred at the university or inns of court.

To what purpose all this, but to shew that the difference so observable in men's understandings and parts, does not arise so much from their natural faculties as acquired habits. He would be laughed at that should go about to make a fine dan-

PRACTICE AND HABITS.

cer out of a country hedger, at past fifty. And he will not have much better fuccess, who shall endeavour at that age to make a man reason well, or speak handsomely who has never been used to it, though you should lay before him a collection of all the best precepts of logic or oratory. No body is made any thing by hearing of rules, or laying them up in his memory; practice must settle the habit of doing without reflecting on the rule, and you may as well hope to make a good painter or mufician extempore by a lecture and instruction in the arts of music and painting, as a coherent thinker, or strict reasoner by a fet of rules, shewing him wherein right reasoning consists.

This being fo that defects and weak-

THE UNDERSTANDING. 31 PRACTICE AND HABITS.

weakness in men's understandings, as well as other faculties, come from want of a right use of their own minds, I am apt to think the fault is generally mislaid upon nature, and there is often a complaint of want of parts, when the fault lies in want of a due improvement of them. We see men frequently dextrous and sharp enough in making a bargain, who, if you reason with them about matters of religion, appear perfectly stupid.

SECTION V.

IDEAS.

I will not here, in what relates to the right conduct and improvement of the understanding, repeat again the getting clear and determined ideas, and the employing our thoughts

IDEAS.

thoughts rather about them, than about founds put for them, nor of fettling the fignification of words which we use with ourselves in the fearch of truth, or with others in discoursing about it. Those hinderances of our understandings in the pursuit of knowledge, I have sufficiently enlarged upon in another place; so that nothing more needs here to be said of those matters.

SECTION VI.

PRINCIPLES.

There is another fault that stops or misleads men in their knowledge, which I have also spoken something of, but yet is necessary to mention here again, that we may examine it to the bottom, and see the root it springs from, and that is, a custom of taking

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taking up with principles that are not felfevident, and very often not fo much as true. It is not unufual to see men rest their opinions upon foundations that have no more certainty and folidity than the propositions built on them, and embraced for their fake. Such foundations are these and the like, viz. the founders or leaders of my party are good men, and therefore their tenets are true; it is the opinion of a fect that is erroneous, therefore it is false; it hath been long received in the world, therefore it is true; or it is new, and therefore false.

These, and many the like, which are by no means the measures of truths and falshood, the generality of men make the standards by which they accustom their understanding to D judge.

PRINCIPLES.

judge. And thus they falling into a habit of determining truth and fallhood by fuch wrong measures, it is no wonder they should embrace error for certainty, and be very positive in things they have no ground for.

There is not any who pretends to the least reason, but when any of these his false maxims are brought to the test, must acknowledge them to be fallible, and such as he will not allow in those that differ from him; and yet after he is convinced of this, you shall see him go on in the use of them, and the very next occasion that offers argue again upon the same grounds. Would one not be ready to think that men are willing to impose upon themselves, and mislead their own understandings,

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standings, who conduct them by such wrong measures, even after they see they cannot be relied on? But yet they will not appear fo blameable as may be thought at first fight; for I think there are a great many that argue thus in earnest, and do it not to impose on themselves or others. They are perfuaded of what they fay, and think there is weight in it, though in a like case they have been convinced there is none; but men would be intolerable to themselves, and contemptible to others, if they should embrace opinions without any ground, and hold what they could give no manner of reason for. True or falle, folid or fandy, the mind must have some foundation to rest itself upon, and as I have remarked in another place, it no fooner entertains any proposition,

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PRINCIPLES.

but it prefently hastens to some hypothesis to bottom it on, till then it is unquiet and unsettled. So much do our own very tempers dispose us to a right use of our understandings if we would follow as we should the inclinations of our nature.

In fome matters of concernment, especially those of religion, men are not permitted to be always wavering and uncertain, they must embrace and profess some tenets or other; and it would be a shame, nay, a contradiction too heavy for any one's mind to lie constantly under, for him to pretend seriously to be persuaded of the truth of any religion, and yet not to be able to give any reason of his belief, or to say any thing for his preference

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of this to any other opinion; and therefore they must make use of some principles or other, and those can be no other than such as they have and can manage; and to say they are not in earnest persuaded by them, and do not rest upon those they make use of, is contrary to experience, and to allege that they are not misled when we complain they are.

If this be fo, it will be urged, why then do they not rather make use of sure and unquestionable principles, than rest on such grounds as may deceive them, and will, as is visible, serve to support error as well as truth?

To this I answer, the reason why they do not make use of better and D 3 furer

furer principles, is because they cannot: but this inability proceeds. not from want of natural parts (for those few whose case that is are to be excused) but for want of use and exercife. Few men are from their youth accustomed to strict reasoning, and to trace the dependance of any truth in a long train of confequences to it's remote principles, and to observe it's connection; and he that by frequent practice has not been used to this employment of his understanding, it is no more wonder that he should not, when he is grown into years, be able to bring his mind to it, than that he should not be on a sudden able to grave or defign, dance on the ropes, or write a good hand, who has never practifed either of them.

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Nay, the most of men are so wholly strangers to this, that they do not fo much as perceive their want of it, they dispatch the ordinarv business of their callings by rote, as we fay, as they have learnt it, and if at any time they miss success, they impute it to any thing rather than want of thought or skill, that they conclude (because they know no better) they have in perfection; or if there be any subject that interest or fancy has recommended to their thoughts, their reasoning about it is still after their own fashion, be it better or worse, it serves their turns, and is the best they are acquainted with; and therefore when they are led by it into mistakes, and their business succeeds accordingly, they impute it to any cross accident, or default of others, rather than D 4.

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than to their own want of understanding; that is, what no body difcovers or complains of in himself. Whatfoever made his business to miscarry, it was not want of right thought and judgment in himself: he fees no fuch defect in himself. but is fatisfied that he carries on his defigns well enough by his own reafoning, or at least should have done, had it not been for unlucky traverses not in his power. Thus being content with this short and very imperfect use of his understanding, he never troubles himself to feek out methods of improving his mind, and lives all his life without any notion of close reasoning, in a continued connection of a long train of confequences from fure foundations, fuch as is requifite for the making out, and clearing most

THE UNDERSTANDING. 41 PRINCIPLES.

of the speculative truths most men own to believe, and are most concerned in. Not to mention here what I shall have occasion to insist on by and by more fully, viz. that in many cases it is not one series of confequences will ferve the turn, but many different and opposite deductions must be examined and laid together, before a man can come to make a right judgment of the point in question. What then can be expected from men that neither fee the want of any fuch kind of reafoning as this; nor if they do, know they how to fet about it, or could perform it? You may as well fet a countryman who scarce knows the figures, and never cast up a fum of three particulars, to state a merchant's long account, and find the true balance of it.

What

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What then should be done in the case? I answer, we should always remember what I faid above, that the faculties of our fouls are improved and made useful to us, just after the same manner as our bodies are. Would you have a man write or paint, dance or fence well, or perform any other manual operation dexterously and with ease, let him have ever fo much vigour and activity, suppleness and address naturally, yet no body expects this from him unless he has been used to it, and has employed time and pains in fashioning and forming his hand or outward parts to these motions. Just so it is in the mind, would you have a man reason well, you must use him to it betimes, exercise his mind in observing the connection of ideas, and following them

THE UNDERSTANDING. 43 PRINCIPLES.

them in train. Nothing does this better than mathematics, which therefore I think should be taught all those who have the time and opportunity, not fo much to make them mathematicians, as to make them reasonable creatures: though we all call ourselves so, because we are born to it if we please, yet we may truly fay nature gives us but the feeds of it: we are born to be, if we please, rational creatures, but it is use and exercise only that makes us fo, and we are indeed fo no farther than industry and application has carried us. And therefore in ways of reasoning which men have not been used to, he that will observe the conclusions they take up, must be satisfied they are not all rational.

This

THE CONDUCT OF

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This has been the less taken notice of, because every one in his private affairs, uses some fort of reafoning or other, enough to denominate him reasonable. But the mistake is, that he that is found reafonable in one thing is concluded to be so in all, and to think or say otherwise, is thought so unjust an affront, and so senseless a censure, that no body ventures to do it. looks like the degradation of a man below the dignity of his nature. is true, that he that reasons well in any one thing, has a mind naturally capable of reasoning well in others, and to the same degree of strength and clearness, and possibly much greater, had his understanding been so employed. But it is as true, that he who can reason well to day about one sort of matters, cannot at all reason to

day

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day about others, though perhaps a year hence he may. But wherever a man's rational faculty fails him, and will not ferve him to reason, there we cannot say he is rational, how capable soever he may be by time and exercise to become so.

Try in men of low and mean education, who have never elevated their thoughts above the spade and the plough, nor looked beyond the ordinary drudgery of a day labourer. Take the thoughts of such an one, used for many years to one track, out of that narrow compass he has been all his life confined to, you will find him no more capable of reasoning than almost a perfect natural. Some one or two rules on which their conclusions immediately depend, you will find in most men

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have governed all their thoughts; these, true or false, have been the maxims they have been guided by: take these from them, and they are perfectly at a loss, their compass and pole star then are gone, and their understanding is perfectly at a nonplus, and therefore they either immediately return to their old maxims again as the foundations of all truth to them, notwithstanding all that can be faid to fhew their weakness; or if they give them up to their reasons, they with them give up all truth and further enquiry, and think there is no fuch thing as certainty. For if you would enlarge their thoughts, and fettle them upon more remote and furer principles, they either cannot eafily apprehend them, or if they can, know not what use to make of them: for long

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long deductions from remote prinples, is what they have not been used to, and cannot manage.

What then, can grown men never be improved or enlarged in their understandings? I say not so, but this I think I may fay, that it will not be done without industry and application, which will require more time and pains than grown men, fettled in their course of life, will allow to it, and therefore very feldom is done. And this very capacity of attaining it by use and exercife only, brings us back to that which I laid down before, that it is only practice that improves our minds as well as bodies, and we must expect nothing from our understandings any farther than they are perfected by habits.

The

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The Americans are not all born with worse understandings than the Europeans, though we see none of them have such reaches in the arts and sciences. And among the children of a poor countryman, the lucky chance of education and getting into the world, gives one infinitely the superiority in parts over the rest, who continuing at home, had continued also just of the same size with his brethren.

He that has to do with young scholars, especially in mathematics, may perceive how their minds open by degrees, and how it is exercise alone that opens them. Sometimes they will stick a long time at a part of a demonstration, not for want of will and application, but really for want of perceiving the connection

THE UNDERSTANDING. PRINCIPLES.

of two ideas; that, to one whose understanding is more exercised, is visible as any thing can be. The fame would be with a grown man beginning to study mathematics, the understanding for want of use, often sticks in very plain way, and he himself that is so puzzled, when he comes to fee the connection, wonders what it was he stuck at in a case so plain.

SECTION VII.

MATHEMATICS

I have mentioned mathematics as a way to fettle in the mind an habit of reasoning closely and in train; not that I think it necessary that all men should be deep mathematicians, but that having got the way of reasoning, which that study ne-E

ceffarily

MATHEMATICS.

ceffarily brings the mind to, they might be able to transfer it to other parts of knowledge as they shall have occasion. For in all forts of reasoning, every single argument should be managed as a mathematical demonstration, the connection and dependance of ideas should be followed till the mind is brought to the source on which it bottoms, and observes the coherence all along, though in proofs of probability, one such train is not enough to settle the judgment as in demonstrative knowledge.

Where a truth is made out by one demonstration, there needs no farther enquiry, but in probabilities where there wants demonstration to establish the truth beyond doubt, there it is not enough to trace one argu-

THE UNDERSTANDING. 51 MATHEMATICS.

argument to it's fource, and obferve it's ftrength and weakness, but all the arguments, after having been so examined on both sides, must be laid in balance one against another, and upon the whole the understanding determine it's affent.

This is a way of reasoning the understanding should be accustomed to, which is so different from what the illiterate are used to, that even learned men oftentimes seem to have very little or no notion of it. Nor is it to be wondered, since the way of disputing in the schools leads them quite away from it, by insisting on one topical argument, by the success of which the truth or falshood of the question is to be determined, and victory adjudged to the opponent or defendant; which

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is all one as if one should balance an account by one sum charged and discharged, when there are an hundred others to be taken into consideration.

This therefore it would be well if men's minds were accustomed to. and that early, that they might not erect their opinions upon one fingle view, when fo many other are requifite to make up the account, and must come into the reckoning before a man can form a right judgment. This would enlarge their minds, and give a due freedom to their understandings, that might not be led into error by prefumption, laziness or precipitancy; for I think no body can approve fuch a conduct of the understanding, as should mislead it from truth, though

THE UNDERSTANDING. 53 MATHEMATICS.

though it be ever fo much in fathion to make use of it.

To this perhaps it will be objected, that to manage the understanding, as I propose, would require every man to be a scholar, and to be furnished with all the materials of knowledge, and exercised in all the ways of reasoning. To which I answer, that it is a shame for those that have time, and the means to attain knowledge, to want any helps or affiftance for the improvement of their understandings, that are to be got, and to fuch I would be thought here chiefly to speak. Those methinks, who by the induftry and parts of their ancestors, have been fet free from a constant drudgery to their backs and their bellies, should bestow some of their spare time

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time on their heads, and open their minds by fome trials and effays in all the forts and matters of reason-I have before mentioned mathematics, wherein algebra gives new helps and views to the understanding. If I propose these, it is not, as I faid, to make every man a thorough mathematician, or a deep algebraist; but yet I think the study of them is of infinite use even to grown men; first by experimentally convincing them, that to make any one reason well, it is not enough to have parts wherewith he is fatisfied, and that ferve him well enough in his ordinary course. A man in those studies will fee, that however good he may think his understanding, yet in many things, and those very vifible, it may fail him. This would take off that prefumption that most men

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men have of themselves in this part; and they would not be so apt to think their minds wanted no helps to enlarge them, that there could be nothing added to the acuteness and penetration of their understandings.

Secondly, the study of mathematics would shew them the necessity there is in reasoning, to separate all the distinct ideas, and see the habitudes that all those concerned in the present enquiry have to one another, and to lay by those which relate not to the proposition in hand, and wholly to leave them out of the reckoning. This is that, which in other subjects besides quantity, is what is absolutely requisite to just reasoning, though in them it is not so easily observed, nor so carefully practised. In those

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parts of knowledge where it is thought demonstration has nothing to do, men reason as it were in the lump; and if upon a fummary and confused view, or upon a partial confideration, they can raise the appearance of a probability, they usually rest content; especially if it be in a dispute where every little straw is laid hold on, and every thing that can but be drawn in any way to give colour to the argument, is advanced with offentation. that mind is not in a posture to find the truth, that does not distinctly take all the parts afunder, and omitting what is not at all to the point, draw a conclusion from the refult of all the particulars which any way influence it. There is another no less useful habit to be got by an application to mathematical

THE UNDERSTANDING. 57

tical demonstrations, and that is, of using the mind to a long train of consequences; but having mentioned that already, I shall not again here repeat it,

As to men whose fortunes and time is narrower, what may suffice them is not of that vast extent as may be imagined, and so comes not within the objection.

No body is under an obligation to know eyery thing. Knowledge and science in general, is the business only of those who are at ease and leisure. Those who have particular callings ought to understand them; and it is no unreasonable proposal, nor impossible to be compassed, that they should think and reason right about what is their daily

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daily employment. This one cannot think them incapable of, without levelling them with the brutes, and charging them with a stupidity below the rank of rational creatures.

SECTION VIII.

RELIGION.

Besides his particular calling for the support of this life, every one has a concern in a future life, which he is bound to look after. This engages his thoughts in religion; and here it mightily lies upon him to understand and reason right. Men therefore cannot be excused from understanding the words, and framing the general notions relating to religion, right. The one day of seven, besides other days of rest, allows in the christian world time enough for this

THE UNDERSTANDING. 59 RELIGION.

this (had they no other idle hours) if they would but make use of these vacancies from their daily labour, and apply themselves to an improvement of knowledge, with as much diligence as they often do to a great many other things that are useless, and had but those that would enter them according to their feveral capacities in a right way to this knowledge. The original make of their minds is like that of other men, and they would be found not to want understanding fit to receive the knowledge of religion, if they were a little encouraged and helped in it as they should be. For there are instances of very mean people, who have raifed their minds to a great sense and understanding of religion. And though these have not been so frequent as could be wished,

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yet they are enough to clear that condition of life from a necessity of gross ignorance, and to shew that more might be brought to be rational creatures and christians (for they can hardly be thought really to be fo, who wearing the name, know not fo much as the very principles of that religion) if due care were taken of them. For, if I mistake not, the peafantry lately in France (a rank of people under a much heavier preffure of want and poverty than the day labourers in England) of the reformed religion, understood it much better, and could fay more for it than those of a higher condition among us.

But if it shall be concluded that the meaner fort of people must give themselves up to a brutish stupidity

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in the things of their nearest concernment, which I fee no reason for, this excuses not those of a freer fortune and education, if they neglect their understandings, and take no care to employ them as they ought, and fet them right in the knowledge of those things, for which principally they were given them. least those whose plentiful fortunes allow them the opportunities and helps of improvements, are fo few, but that it might be hoped great advancements might be made in knowledge of all kinds, especially in that of the greatest concern and largest views, if men would make a right use of their faculties, and study their own understandings.

SECTION IX.

IDEAS.

Outward corporeal objects that constantly importune our senses, and captivate our appetites, fail not to fill our heads with lively and lasting ideas of that kind. Here the mind needs not be fet upon getting greater store; they offer themselves fast enough, and are usually entertained in fuch plenty, and lodged fo carefully, that the mind wants room or attention for others that it has more use and need of. To fit the understanding therefore for such reasoning as I have been above speaking of, care should be taken to fill it with moral and more abstract ideas; for these not offering themfelves to the fenses, but being to be framed to the understanding, people

ple are generally so neglectful of a faculty they are apt to think wants nothing, that I fear most men's minds are more unfurnished with fuch ideas than is imagined. They often use the words, and how can they be suspected to want the ideas? What I have faid in the third book of my essay, will excuse me from any other answer to this question. But to convince people of what moment it is to their understandings to be furnished with such abstract ideas steady and settled in them, give me leave to ask how any one shall be able to know, whether he be obliged to be just, if he has not established ideas in his mind, of obligation and of justice, since knowledge confifts in nothing but the perceived agreement or disagreement of those ideas; and so of all others, the like

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like which concern our lives and manners. And if men do find a difficulty to see the agreement or disagreement of two angles which lie before their eyes, unalterable in a diagram, how utterly impossible will it be to perceive in it ideas that have no other fensible objects to represent them to the mind, but founds, with which they have no manner of conformity, and therefore had need to be clearly fettled in the mind themfelves, if we would make any clear judgment about them. This therefore is one of the first things the mind should be employed about in the right conduct of the understanding, without which it is impossible it should be capable of reafoning right about those matters. But in these, and all other ideas, care must be taken that they harbour

IDEAS.

bour no inconfishences, and that they have a real existence where real existence is supposed, and are not mere chimeras with a supposed existence.

SECTION X.

PREJUDICE.

Every one is forward to complain of the prejudices that mislead other men or parties, as if he were free, and had none of his own. This being objected on all sides, it is agreed, that it is a fault and an hindrance to knowledge. What now is the cure? No other but this, that every man should let alone others' prejudices and examine his own. No body is convinced of his by the accusation of another, he recriminates by the same rule, and is

PREJUDICE.

clear. The only way to remove this great cause of ignorance and error out of the world, is, for every one impartially to examine himself. If others will not deal fairly with their own minds; does that make my errors truths, or ought it to make me in love with them, and willing to impose on myself? others love cataracts on their eves, should that hinder me from couching of mine as foon as I could? Every one declares against blindnefs, and yet who almost is not fond of that which dims his fight, and keeps the clear light out of his mind, which should lead him into knowledge? False truth and doubtful positions, relied upon as unquestionable maxims, keep those in the dark from truth, who build on them. Such are usually pre-

THE UNDERSTANDING. 67 PREJUDICE.

prejudices imbibed from education, party, reverence, fashion, interest, This is the mote which every one fees in his brother's eye, but never regards the beam in his own. For who is there almost that is ever brought fairly to examine his own principles, and fee whether they are fuch as will bear the trial? but yet this should be one of the first things every one should set about, and be fcrupulous in, who would rightly conduct his understanding in the fearch of truth and knowledge.

To those who are willing to get rid of this great hindrance of knowledge, (for to fuch only I write) to those who would shake off this great and dangerous impostor prejudice, who dreffes up falshood in the likeness of truth, and so dexterously hood-F 2

PREJUDICE.

hoodwinks men's minds, as to keep. them in the dark, with a belief that they are more in the light than any that do not fee with their eyes, I shall offer this one mark whereby prejudice may be known. He that is strongly of any opinion, must suppose (unless he be selfcondemned) that his perfuafion is built upon good grounds; and that his affent is no greater than what the evidence of the truth he holds forces him to: and that they are arguments, and not inclination or fancy that make him fo confident and positive in his Now if after all his protenets. fession, he cannot bear any opposition to his opinion, if he cannot fo much as give a patient hearing, much less examine and weigh the arguments on the other fide, does he not plainly confess it is prejudice

THE UNDERSTANDING. 69 PREJUDICE.

dice governs him? And it is not the evidence of truth, but fome lazy anticipation, fome beloved fumption that he defires to rest undiffurbed in. For if what he holds be as he gives out, well fenced with evidence, and he fees it to be true. what need he fear to put it to the proof? If his opinion be fettled upon a firm foundation, if the arguments that support it, and have obtained his affent be clear, good and convincing, why fhould he be fhy to have it tried whether they be proof or not? He whose assent goes beyond his evidence, owes this excess of his adherence only to prejudice, and does, in effect, own it, when he refuses to hear what is offered against it; declaring thereby, that it is not evidence he feeks, but the quiet enjoyment of the opinion

PREJUDICE.

he is fond of, with a forward condemnation of all that may stand in opposition to it, unheard and unexamined; which, what is it but prejudice? Qui æquum statuerit parte inauditâ alterâ, etiam si æquum statuerit, haud æquus fuerit. He that would acquit himself in this case as a lover of truth, not giving way to any preoccupation, or bias that may mislead him, must do two things that are not very common, nor very easy.

SECTION XI.

INDIFFERENCY.

First, he must not be in love with any opinion, or wish it to be true, till he knows it to be so, and then he will not need to wish it; for nothing that is false can deserve

THE UNDERSTANDING. 71 INDIFFERENCY.

our good wishes, nor a defire that it should have the place and force of truth; and yet nothing is more frequent than this. Men are fond of certain tenets upon no other evidence but respect and custom, and think they must maintain them, or all is gone, though they have never examined the ground they stand on, nor have ever made them out to themselves, or can make them out to others. We should contend earnestly for the truth, but we should first be fure that it is truth, or else we fight against God, who is the God of truth, and do the work of the devil, who is the father and propagator of lies; and our zeal, though ever fo warm, will not excuse us; for this is plainly prejudice.

SECTION XII.

EXAMINE.

Secondly, He must do that which he will find himself very averse to, as judging the thing unnecessary, or himself incapable of doing it. must try whether his principles be certainly true or not, and how far he may fafely rely upon them. This, whether fewer have the heart or the skill to do, I shall not determine; but this I am fure, this is that which every one ought to do, who professes to love truth, and would not impose upon himself; which is a furer way to be made a fool of than by being exposed to the fophistry of others. The difposition to put any cheat upon ourfelves, works constantly, and we are pleased with it, but are impatient

EXAMINE.

of being bantered or misled by others. The inability I here speak of, is not any natural defect that makes men incapable of examining their own principles. To fuch, rules of conducting their understandings are useless, and that is the case of very few. The great number is of those whom the ill habit of never exerting their thoughts has disabled: the powers of their minds are starved by difuse, and have lost that reach and strength which nature fitted them to receive from exercise. Those who are in a condition to learn the first rules of plain arithmetic, and could be brought to cast up an ordinary fum, are capable of this, if they had but accustomed their minds to reasoning: but they that have wholly neglected the exercife of their understandings in this

way, will be very far at first from being able to do it, and as unfit for it as one unpractifed in figures to cast up a shopbook, and perhaps think it as strange to be set about it. And yet it must nevertheless be confessed to be a wrong use of our understandings to build our tenets (in things where we are concerned to hold the truth) upon principles that may lead us into We take our principles at haphazard upon truft, and without ever having examined them, and then believe a whole fystem, upon a prefumption that they are true and folid; and what is all this but childish, shameful, senseless credulity?

In these two things, viz. an equal indifferency for all truth; I mean the

the receiving it in the love of it as truth, but not loving it for any other reason before we know it to be true; and in the examination of our principles, and not receiving any for fuch, nor building on them till we are fully convinced, as rational creatures, of their folidity, truth and certainty, confifts that freedom of the understanding which is necessary to a rational creature, and without which it is not truly an understanding. It is conceit. fancy, extravagance, any thing rather than understanding, if it must be under the constraint of receiving and holding opinions by the authority of any thing but their own, not fancied, but perceived, evidence. This was rightly called imposition, and is of all others the worst and most dangerous fort of it. For we impose

impose upon ourselves, which is the strongest imposition of all others; and we impose upon ourselves in that part which ought with the greatest care to be kept free from all imposition. The world is apt to cast great blame on those who have an indifferency for opinions, especially in religion. I fear this is the foundation of great error and worse consequences. To be indifferent which of two opinions is true, is the right temper of the mind that preferves it from being imposed on, and disposes it to examine with that indifferency, till it has done it's best to find the truth. and this is the only direct and fafe way to it. But to be indifferent whether we embrace falshood or truth or no, is the great road to error. Those who are not indiffer-

ent which opinion is true, are guilty of this; they suppose, without examining, that what they hold is true, and then think they ought to be zealous for it. Those, it is plain by their warmth and eagerness, are not indifferent for their own opinions, but methinks are very indifferent whether they be true or false, fince they cannot endure to have any doubts raifed, or objections made against them; and it is visible they never have made any themfelves, and fo never having examined them, know not, nor are concerned, as they should be, to know whether they be true or false.

These are the common and most general miscarriages, which I think men should avoid or restify in a right conduct of their understandings,

ings, and should be particularly taken care of in education. The business whereof in respect of knowledge, is not, as I think, to perfect a learner in all or any one of the sciences, but to give his mind that freedom, that disposition, and those habits that may enable him to attain any part of knowledge he shall apply himself to, or stand in need of in the future course of his life.

This, and this only is well principling, and not the infilling a reverence and veneration for certain dogmas under the specious title of principles, which are often so remote from that truth and evidence which belongs to principles, that they ought to be rejected as false and erroneous, and is often the cause, to men so educated, when they

THE UNDERSTANDING. 79 EXAMINE.

they come abroad into the world, and find they cannot maintain the principles, so taken up and rested in, to cast off all principles, and turn perfect sceptics, regardless of knowledge and virtue.

There are feveral weakneffes and defects in the understanding, either from the natural temper of the mind, or ill habits taken up, which hinder it in it's progress to knowledge. Of these there are as many possibly to be found, if the mind were thoroughly studied, as there are diseases of the body, each whereof clogs and disables the understanding to some degree, and therefore deferves to be looked after and cured. I shall set down some few to excite men, especially those who make knowledge their business, to look into

into themselves, and observe whether they do not indulge some weakness, allow some miscarriages in the management of their intellectual faculty, which is prejudicial to them in the search of truth.

SECTION XIII.

OBSERVATION.

Particular matters of fact are the undoubted foundations on which our civil and natural knowledge is built: the benefit the understanding makes of them is to draw from them conclusions, which may be as standing rules of knowledge, and consequently of practice. The mind often makes not that benefit it should of the information it receives from the accounts of civil or natural historians, in being too forward,

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ward, or too flow in making observations on the particular facts recorded in them.

There are those who are very asfiduous in reading, and yet do not much advance their knowledge by it. They are delighted with the stories that are told, and perhaps can tell them again, for they make all they read nothing but history to themfelves; but not reflecting on it, not making to themselves observations from what they read, they are very little improved by all that croud of particulars that either pass through, or lodge themselves in their understandings. They dream on in a constant course of reading and cramming themselves, but not digesting any thing, it produces nothing but an heap of crudities.

G

OBSERVATION.

If their memories retain well, one may fay they have the materials of knowledge, but like those for building, they are of no advantage, if there be no other use made of them but to let them lie heaped up together. Opposite to these there are others who lose the improvement they should make of matters of fact by a quite contrary conduct. They are apt to draw general conclusions, and raise axioms from every particular they These make as little true benefit of history as the other, nay, being of forward and active spirits, receive more harm by it; it being of worse consequence to steer one's thoughts by a wrong rule, than to have none at all, error doing to bufy men much more harm, than ignoto the flow and fluggish.

Be-

Between these, those feem to do best who taking material and ufeful hints, fometimes from fingle matters of fact, carry them in their minds to be judged of, by what they shall find in history to confirm or reverse these imperfect observations; which may be established into rules fit to be relied on, when they are justified by a sufficient and wary induction of particulars. He that makes no fuch reflections on what he reads, only loads his mind with a rhapfody of tales fit in winter nights for the entertainment of others; and he that will improve every matter of fact into a maxim, will abound in contrary observations, that can be of no other use but to perplex and pudder him, if he compares them; or else to misguide him, if he gives himself up to the G 2

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OBSERVATION.

the authority of that, which for it's novelty, or for some other fancy, best pleases him.

SECTION XIII.

BIAS.

Next to these we may place those who suffer their own natural tempers and paffions they are poffessed with to influence their judgments, especially of men and things that may any way relate to their present circumstances and interest. Truth is all fimple, all pure, will bear no mixture of any thing else with it. It is rigid and inflexible to any by interests; and so should the understanding be, whose use and excellency lies in conforming itself to it. To think of every thing just as it is in itself, is the proper bufiness

finess of the understanding, though it be not that which men always employ it to. This all men at first hearing, allow is the right use every one should make of his understanding. No body will be at fuch an open defiance with common sense, as to profess that we should not endeavour to know, and think of things as they are in themselves, and yet there is nothing more frequent than to do the contrary; and men are apt to excuse themselves, and think they have reason to do so, if they have but a pretence that it is for God, or a good cause, that is, in effect for themselves, their own perfuafion, or party: for to those in their turns the feveral fects of men, especially in matters of religion, entitle God and a good cause. But God requires not men to wrong

BIAS.

or misuse their faculties for him, nor to lie to others or themselves for his sake; which they purposely do who will not suffer their understandings to have right conceptions of the things proposed to them, and designedly restrain themselves from having just thoughts of every thing, as far as they are concerned to enquire. And as for a good cause, that needs not such ill helps; if it be good, truth will support it, and it has no need of fallacy or false-hood.

SECTION XIV.

ARGUMENTS.

Very much of kin to this is the hunting after arguments to make good one fide of a question, and wholly to neglect and refuse those which

which favour the other fide. What is this but wilfully to mifguide the understanding? and is so far from giving truth it's due value, that it wholly debases it: espouse opinions that best comport with their power, profit, or credit, and then seek arguments to support them. Truth, light upon this way, is of no more avail to us than error; for what is so taken up by us, may be false as well as true, and he has not done his duty who has thus stumbled upon truth in his way to preferment.

There is another, but more innocent way of collecting arguments, very familiar among bookish men, which is to furnish themselves with the arguments they meet with pro and con in the questions they study.

G4 This

ARGUMENTS.

This helps them not to judge right, nor argue strongly, but only to talk copiously on either fide, without being steady and settled in their own judgments: for fuch arguments gathered from other men's thoughts, floating only in the memory, are there ready indeed to supply copious talk with fome appearance of reafon, but are far from helping us to judge right. Such variety of arguments only diffract the understanding that relies on them, unless it has gone farther than fuch a fuperficial way of examining; this is to quit truth for appearance, only to ferve our vanity. The fure and only way to get true knowledge, is to form in our minds clear fettled notions of things, with names annexed to those determined ideas. These we are to confider, and with their feveral

feveral relations and habitudes, and not amuse ourselves with floating names, and words of indetermined fignification, which we can use in feveral fenses to serve a turn. in the perception of the habitudes and respects our ideas have one to another, that real knowledge confifts; and when a man once perceives how far they agree or difagree one with another, he will be able to judge of what other people fay, and will not need to be led by the arguments of others, which are many of them nothing but plaufible fophistry. This will teach him to state the question right, and see whereon it turns; and thus he will stand upon his own legs, and know by his own understanding. Whereas by collecting and learning arguments by heart, he will be but a retainer to others:

ARGUMENTS.

others; and when any one questions the foundations they are built upon, he will be at a nonplus, and be fain to give up his implicit knowledge.

SECTION XV.

HASTE.

Labour for labour' fake is against nature. The understanding, as well as all the other faculties, chooses always the shortest way to it's end, would presently obtain the knowledge it is about, and then set upon some new inquiry. But this, whether laziness or haste often misleads it, and makes it content itself with improper ways of search, and such as will not serve the turn. Sometimes it rests upon testimony, when testimony of right has nothing to do, because it is easier to believe

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believe than to be scientifically instructed. Sometimes it contents itfelf with one argument, and rests fatisfied with that, as it were a demonstration; whereas the thing under proof is not capable of demonstration, and therefore must be submitted to the trial of probabilities, and all the material arguments pro and con be examined and brought to a balance. In some cases the mind is determined by probable topics in inquiries, where demonstration may be had. All these, and feveral others, which lazinefs. impatience, custom, and want of use and attention lead men into, are misapplications of the understanding in the search of truth. In every question, the nature and manner of the proof it is capable of, should first be considered to make our

HASTE.

our inquiry fuch as it should be. This would fave a great deal of frequently misemployed pains, and lead us fooner to that discovery and possession of truth we are capable of. The multiplying variety of arguments, especially frivolous ones, such as are all that are merely verbal, is not only lost labour, but cumbers the memory to no purpose, and ferves only to hinder it from feizing and holding of the truth in all those cases which are capable of demon-In fuch a way of proof stration. the truth and certainty is feen, and the mind fully possesses itself of it; when in the other way of affent, it only hovers about it, is amused with uncertainties. In this superficial way, indeed, the mind is capable of more variety of plaufible talk, but is not enlarged as it should be in

HASTE.

it's knowledge. It is to this fame haste and impatience of the mind alfo, that a not due tracing of the arguments to their true foundation is owing; men fee a little, prefume a great deal, and fo jump to the conclusion. This is a short way to fancy and conceit, and (if firmly embraced) to opiniatrety, but certainly the farthest way about to knowledge. For he that will know, must by the connection of the proofs fee the truth, and the ground it stands on; and therefore, if he has for haste skipt over what he should have examined, he must begin and go over all again, or else he will never come to knowledge.

SECTION XVI.

DESULTORY.

Another fault of as ill consequence as this, which proceeds also from laziness with a mixture of vanity, is the skipping from one fort of knowledge to another. Some men's tempers are quickly weary of any one thing. Constancy and assistance is what they cannot bear: the same study long continued in, is as intolerable to them, as the appearing long in the same clothes or fashion is to a court lady.

SECTION XVII. SMATTERING.

Others, that they may feem univerfally knowing, get a little fmattering in every thing. Both these may

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may fill their heads with superficial notions of things, but are very much out of the way of attaining truth or knowledge.

SECTION XVIII.

UNIVERSALITY.

I do not here fpeak against the taking a taste of every fort of knowledge; it is certainly very useful and necessary to form the mind, but then it must be done in a different way, and to a different end. for talk and vanity to fill the head with shreds of all kinds, that he who is possessed of such a frippery, may be able to match the discourses of all he shall meet with, as if nothing could come amiss to him; and his head was fo well stored a magazine, that nothing could be

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proposed which he was not master of, and was readily furnished to entertain any one on. This is an excellency indeed, and a great one too. to have a real and true knowledge in all or most of the objects of contemplation. But it is what the mind of one and the same man can hardly attain unto; and the instances are so few of those who have in any measure approached towards it, that I know not whether they are to be proposed as examples in the ordinary conduct of the understanding. For a man to understand fully the business of his particular calling in the commonwealth, and of religion, which is his calling as he is a man in the world, is usually enough to take up his whole time; and there are few that inform themselves in which

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which is every man's proper and peculiar business, so to the bottom as they should do. But though this be fo, and there are very few men that extend their thoughts towards univerfal knowledge; yet I do not doubt but if the right way were taken, and the methods of enquiry were ordered as they should be, men of little business and great leisure might go a great deal farther in it than is usually done. turn to the business in hand, the end and use of a little insight in those parts of knowledge, which are not a man's proper business, is to accustom our minds to all forts of ideas, and the proper ways of examining their habitudes and relations. This gives the mind a freedom, and the exercifing the understanding in the several ways of en-H quiry

UNIVERSALITY.

quiry and reasoning which the most skilful have made use of, teaches the mind fagacity and warinefs, and a fuppleness to apply itself more closely and dexterously to the bents and turns of the matter in all it's refearches. Befides this univerfal taste of all the sciences, with an indifferency before the mind is poffessed with any one in particular, and grown into love and admiration of what is made it's darling, will prevent another evil very commonly to be observed in those who have from the beginning been feafoned only by one part of knowledge. Let a man be given up to the contemplation of one fort of knowledge, and that will become every The mind will take fuch a tincture from a familiarity that object, that every thing else, how

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how remote foever, will be brought under the fame view. A metaphyfician will bring plowing and gardening immediately to abstract notions, the history of nature shall fignify nothing to him. chymist, on the contrary, shall reduce divinity to the maxims of his laboratory, explain morality by Sal, Sulphur, and Mercury, and allegorize the scripture itself, and the facred mysteries thereof, into the philosopher's stone. And I heard once a man, who had a more than ordinary excellency in music, seriously accommodate Moses' seven days of the first week to the notes of music, as if from thence had been taken the measure and method of the creation. It is of no fmall confequence to keep the mind from fuch a possession, which think is best done H 2

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done by giving it a fair and equal view of the whole intellectual world, wherein it may fee the order, rank, and beauty of the whole, and give a just allowance to the distinct provinces of the several sciences in the due order and usefulness of each of them.

If this be that which old men will not think necessary, nor be easily brought to; it is fit at least that it should be practised in the breeding of the young. The business of education, as I have already observed, is not, as I think, to make them perfect in any one of the sciences, but so to open and dispose their minds as may best make them capable of any, when they shall apply themselves to it. If men are for a long time accustomed only to

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one fort or method of thoughts, their minds grow stiff in it, and do not readily turn to another. It is therefore to give them this freedom, that I think they should be made to look into all forts of knowledge, and exercise their understandings in so wide a variety and stock of knowledge. But I do not propose it as a variety and stock of knowledge, but a variety and freedom of thinking, as an increase of the powers and activity of the mind, not as an enlargement of it's possessions.

SECTION XIX.

READING.

This is that which I think great readers are apt to be mistaken in. Those who have read of every thing, are thought to understand every H 3 thing

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READING.

thing too; but it is not always fo. Reading furnishes the mind only with materials of knowledge, it is thinking makes what we read our's. We are of the ruminating kind, and it is not enough to cram ourfelves with a great load of collections, unless we chew them over again, they will not give us ftrength and nourishment. There are indeed in fome writers visible instances of deep thoughts, close and acute reasoning, and ideas well pursued. The light these would give, would be of great use, if their readers would observe and imitate them; all the rest at best are but particulars fit to be turned into knowledge; but that can be done only by our own meditation, and examining the reach, force and coherence of what is faid; and then as far as we apprehend and

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fee the connection of ideas, fo far it is our's: without that it is but fo much loofe matter floating in our brain. The memory may be stored, but the judgment is little better, and the stock of knowledge not increafed by being able to repeat what others have faid, or produce the arguments we have found in them. Such a knowledge as this, is but knowledge by hearfay, and the oftentation of it is at best but talking by rote, and very often upon weak and wrong principles. For all that is to be found in books, is not built upon true foundations, nor always rightly deduced from the principles it is pretended to be built Such an examen as is requion. fite to discover that, every reader's mind is not forward to make; efpecially in those who have given them-Н4

READING.

themselves up to a party, and only hunt for what they can scrape together, that may favour and support the tenets of it. Such men wilfully exclude themselves from truth, and from all true benefit to be received by reading. Others of more indifferency often want attention and industry. The mind is backward in itself to be at the pains to trace every argument to it's original, and to fee upon what basis it stands, and how firmly; but yet it is this that gives fo much the advantage to one man more than another in reading. The mind should, by severe rules, be tied down to this at first uneasy task, use and exercise will give it facility. So that those who are accustomed to it, readily, as it were with one cast of the eye, take a view of the argument, and presently, in most

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most cases, see where it bottoms. Those who have got this faculty, one may fay, have got the true key of books, and the clue to lead them through the mizmaze of variety of opinions and authors to truth and certainty. This young beginners should be entered in, and shewed the use of, that they might profit by their reading. Those who are strangers to it, will be apt to think it too great a clog in the way of men's studies, and they will suspect they shall make but small progress, if, in the books they read, they must stand to examine and unravel every argument, and follow it step by step up to it's original.

I answer, this is a good objection, and ought to weigh with those whose reading is designed for much talk

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READING.

talk and little knowledge, and I have nothing to fay to it. But I am here inquiring into the conduct of the understanding in it's progress towards knowledge; and to those who aim at that, I may fay, that he who fair and foftly goes steadily forward in a course that points right, will sooner be at his journey's end, than he that runs after every one he meets, though he gallop all day full speed.

To which let me add, that this way of thinking on, and profiting by what we read, will be a clog and rub to any one only in the beginning; when cuftom and exercife has made it familiar, it will be difpatched in most occasions, without resting or interruption in the course of our reading. The motions and views

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views of a mind exercifed that way, are wonderfully quick; and a man used to such fort of reflections, sees as much at one glimpse as would require a long discourse to lay before another, and make out in an entire and gradual deduction. Besides, that when the first difficulties are over, the delight and sensible advantage it brings, mightily encourages and entirems the mind in reading, which without this is very improperly called study.

SECTION XX.

INTERMEDIATE PRINCIPLES.

As an help to this, I think it may be proposed, that for the saving the long progression of the thoughts to remote and first principles in every case, the mind should provide itself several

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INTERMEDIATE PRINCIPLES.

feveral stages; that is to fav, intermediate principles, which it might have recourse to in the examining those positions that come in it's way. These, though they are not felfevident principles, yet if they have been made out from them by a wary and unquestionable deduction, may be depended on as certain and infallible truths, and ferve as unquestionable truths to prove other points depending on them by a nearer and shorter view than remote and general maxims. Thefe may ferve as landmarks to shew what lies in the direct way of truth, or is quite besides it. And thus mathematicians do, who do not in every new problem run it back to the first axioms, through all the whole train of intermediate propofitions. Certain theorems that they have

THE UNDER STANDING. 109 INTERMEDIATE PRINCIPLES.

have fettled to themselves upon sure demonstration, ferve to resolve to multitudes of propositions them which depend on them, and are as firmly made out from thence, as if the mind went afresh over every link of the whole chain that ties them to first selfevident principles. Only in other sciences great care is to be taken that they establish those intermediate principles, with as much caution, exactness and indifferency, as mathematicians use in the settling any of their great theorems. When this is not done, but men take up the principles in this or that science upon credit, inclination, interest, &c. in haste without due examination, and most unquestionable proof, they lay a trap for themselves, and as much as in them lies captivate their understand-

110 THE CONDUCT OF

INTERMEDIATE PRINCIPLES. ftandings to mistake, falshood and error.

SECTION XXI. PARTIALITY.

As there is a partiality to opinions, which, as we have already observed, is apt to mislead the understanding; so there is often a partiality to studies, which is prejudicial also to knowledge and improvement. Those sciences which men are particularly versed in, they are apt to value and extol, as if that part of knowledge which every one has acquainted himself with, were that alone which was worth the having, and all the rest were idle, and empty amusements, comparatively of no use or importance. This is the effect of ignorance and not

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PARTIALITY.

not knowledge, the being vainly puffed up with a flatulency, arifing from a weak and narrow comprehension. It is not amiss that every one should relish the science that he has made his peculiar study; a view of it's beauties, and a fense of it's usefulness, carries a man on with the more delight and warmth in the pursuit and improvement of it. But the contempt of all other knowledge, as if it were nothing in comparison of law or physic, of astronomy or chymistry, or perhaps some yet meaner part of knowledge, wherein I have got fome fmattering, or am fomewhat advanced, is not only the mark of a vain or little mind, but does this prejudice in the conduct of the understanding, that it coops it up within narrow bounds, and hinders it from looking abroad into other

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PARTIALITY.

other provinces of the intellectual world, more beautiful possibly, and more fruitful than that which it had till then laboured in; wherein it might find, besides new knowledge, ways or hints whereby it might be enabled the better to cultivate it's own.

SECTION XXII.

THEOLOGY.

There is indeed one science (as they are now distinguished) incomparably above all the rest, where it is not by corruption narrowed into a trade or saction, for mean or ill ends, and secular interests; I mean theology, which containing the knowledge of God and his creatures, our duty to him and our fellow creatures, and a view of our present

THE UNDERSTANDING. 113 THEOLOGY.

present and future state, is the comprehension of all other knowledge directed to it's true end; i. e. the honour and veneration of the Creator, and the happiness of mankind. This is that noble study which is every man's duty, and every one that can be called a rational creature is capable of. The works of nature, and the words of revelation, display it to mankind in characters fo large and visible, that those who are not quite blind may in them read, and fee the first principles and most necessary parts of it; and from thence, as they have time and industry, may be enabled to go on to the more abstruse parts of it, and penetrate into those infinite depths filled with the treasures of wisdom and knowledge. This is that fcience, which would truly enlarge

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large men's minds, were it studied, or permitted to be studied every where with that freedom, love of truth and charity which it teaches, and were not made, contrary to it's nature, the occasion of strife, faction, malignity, and narrow impositions. I shall say no more here of this, but that it is undoubtedly a wrong use of my understanding, to make it the rule and measure of another man's; a use which it is neither sit for nor capable of.

SECTION XXIII.

PARTIALITY.

This partiality, where it is not permitted an authority to render all other studies infignificant or contemptible, is often indulged so far as to be relied upon, and made use

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of in other parts of knowledge, to which it does not at all belong, and wherewith it has no manner of affinity. Some men have fo used their heads to mathematical figures, that giving a preference to the methods of that science, they introduce lines and diagrams into their study of divinity, or politic enquiries, as if nothing could be known without them; and others accustomed to retired speculations, run natural philosophy into metaphysical notions, and the abstract generalities of logic; and how often may one meet with religion and morality treated of in the terms of the laboratory, and thought to be improved by the methods and notions of chymistry. But he that will take care of the conduct of his understanding to direct it right to

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PARTIALITY.

the knowledge of things, must avoid those undue mixtures, and not by a fondness for what he has found useful and necessary in one, transfer it to another science, where it ferves only to perplex and confound the understanding. It is a certain truth, that res nolunt male administrari, it is no less certain, res nolunt male intelligi. Things themselves are to be confidered as they are in themselves, and then they will shew us in what way they are to be understood. For to have right conceptions about them, we must bring our understandings to the inflexible natures, and unalterable relations of things, and not endeavour to bring things to any preconceived notions of our own.

There is another partiality very com-

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commonly observable in men of study, no less prejudicial nor ridiculous than the former; and that is a fantastical, and wild attributing all knowledge to the ancients alone, or to the moderns. This raving upon antiquity in matter of poetry, Horace has wittily described and exposed in one of his fatyrs. fame fort of madness may be found in reference to all the other sciences. Some will not admit an opinion not authorized by men of old, who were then all giants in knowledge. Nothing is to be put into the treafury of truth or knowledge, which has not the stamp of Greece or Rome upon it; and fince their days will scarce allow that men have been able to fee, think or write. Others with a like extravagancy, contemn all that the ancients have left us,

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and being taken with the modern inventions and discoveries, lay by all that went before, as if whatever is called old must have the decay of time upon it, and truth too were liable to mould and rottenness. Men, I think, have been much the fame for natural endowments in all times. Fashion, discipline and education, have put eminent differences in the ages of feveral countries, and made one generation much differ from another in arts and sciences: but truth is always the fame; time alters it not, nor is it the better or worse for being of ancient or modern tradition. Many were eminent in former ages of the world for their discovery and delivery of it; but though the knowledge they have left us be worth our study, yet they exhausted not all it's treasure; they

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they left a great deal for the industry and fagacity of after ages, and fo shall we. That was once new to them which any one now receives with veneration for it's antiquity; nor was it the worse for appearing as a novelty, and that which is now embraced for it's newness, will, to posterity, be old, but not thereby be less true or less genuine. There is no occasion on this account to oppose the ancients and the moderns to one another, or to be squeamish on either side. He that wisely conducts his mind in the pursuit of knowledge, will gather what lights, and get what helps he can from either of them, from whom they are best to be had, without adoring the errors, or rejecting the truths which he may find mingled in them.

Another partiality may be observ-14 ed, ed, in some to vulgar, in others to heterodox tenets: fome are apt to conclude, that what is the common opinion cannot but be true; fo many men's eyes they think cannot but fee right; fo many men's understandings of all forts cannot be deceived, and therefore will not venture to look beyond the received notions of the place and age, nor have fo prefumptuous a thought as to be wifer than their neighbours. They are content to go with the croud, and fo go eafily, which they think is going right, or at least serves them as well. however, vex populi vex Dei has prevailed as a maxim, yet I do not remember wherever God delivered his oracles by the multitude, or nature truths by the herd. On the other fide, fome fly all common opinions as either false or frivolous.

The

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PARTIALITY.

The title of manyheaded beaft is a fufficient reason to them to conclude, that no truths of weight or confequence can be lodged there. Vulgar opinions are fuited to vulgar capacities, and adapted to the ends of those that govern. He that will know the truth of things, must leave the common and beaten track, which none but weak and fervile minds are fatisfied to trudge along continually in. Such nice palates relish nothing but strange notions quite out of the way: whatever is commonly received, has the mark of the beast on it; and they think it a leffening to them to hearken to it, or receive it; their mind runs only after paradoxes; these they seek, these they embrace, these alone they vent, and so as they think, distinguish themselves from the vulgar. But

122 THE CONDUCT OF PARTIALITY.

But common or uncommon are not the marks to distinguish truth or falshood, and therefore should not be any bias to us in our enquiries. We should not judge of things by men's opinions, but of opinions by things. The multitude reason but ill, and therefore may be well fuspected, and cannot be relied on, nor should be followed as a sure guide; but philosophers who have quitted the orthodoxy of the community, and the popular doctrines of their countries, have fallen into as extravagant and as abfurd opinions as ever common reception countenanced. It would be madness to refuse to breathe the common air, or quench one's thirst with water, because the rabble use them to these purposes; and if there are conveniences of life which common

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mon use reaches not, it is not reafon to reject them, because they are not grown into the ordinary fashion of the country, and every villager doth not know them.

Truth, whether in or out of fafhion, is the measure of knowledge, and the business of the understanding; whatsoever is besides that, however authorized by consent, or recommended by rarity, is nothing but ignorance, or something worse.

Another fort of partiality there is, whereby men impose upon themselves, and by it make their reading little useful to themselves; I mean the making use of the opinions of writers, and laying stress upon their authorities, wherever they find them to favour their own opinions.

There

124 THE CONDUCT OF PARTIALITY.

There is nothing almost has done more harm to men dedicated to letters, than giving the name of study to reading, and making a man of great reading to be the same with a man of great knowledge, or at least to be a title of honour. All that can be recorded in writing, are only facts or reasonings. Facts are of three forts:

- 1. Merely of natural agents, obfervable in the ordinary operations of bodies one upon another, whether in the vifible course of things left to themselves, or in experiments made by men, applying agents and patients to one another, after a peculiar and artificial manner.
- 2. Of voluntary agents, more efpecially the actions of men in fociety,

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ciety, which makes civil and moral history.

3. Of opinions.

In these three consists, as it seems to me, that which commonly has the name of learning; to which perhaps some may add a distinct head of critical writings, which indeed at bottom is nothing but matter of fact, and resolves itself into this, that such a man, or set of men, used such a word or phrase in such a sense, i. e. that they made such sounds the marks of such ideas.

Under reasonings I comprehend all the discoveries of general truths made by human reason, whether found by intuition, demonstration, or probable deductions. And this

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is that which is, if not alone knowledge, (because the truth or probability of particular propositions may be known too) yet is, as may be supposed, most properly the business of those who pretend to improve their understandings, and make themselves knowing by reading.

Books and reading are looked upon to be the great helps of the understanding, and instruments of knowledge, as it must be allowed that they are; and yet I beg leave to question whether these do not prove an hindrance to many, and keep several bookish men from attaining to solid and true knowledge. This, I think, I may be permitted to say, that there is no part wherein the understanding needs a more careful and wary conduct, than in

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the use of books; without which they will prove rather innocent amusements than profitable employments of our time, and bring but small additions to our knowledge.

There is not feldom to be found even amongst those who aim at knowledge, who with an unwearied industry, employ their whole time in books, who scarce allow themselves time to eat or sleep, but read, and read, and read on, but yet make no great advances in real knowledge, though there be no defect in their intellectual faculties, to which their little progress can be imputed. The mistake here is, that it is usually supposed, that by reading, the author's knowledge is transfused into the reader's understanding; and so

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it is, but not by bare reading, but by reading and understanding what Whereby I mean, not he writ. barely comprehending what is affirmed or denied in each proposition. (though that great readers do not always think themselves concerned precifely to do) but to fee and follow the train of his reasonings, obferve the strength and clearness of their connection, and examine upon what they bottom. Without this a man may read the discourses of a very rational author, writ in a language and in propositions that he very well understands, and yet acquire not one jot of his knowledge; which confifting only in the perceived, certain, or probable connection of the ideas made use of in his reasonings, the reader's knowledge is no farther increased, than he perceives that.

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that, so much as he sees of this connection, so much he knows of the truth or probability of that author's opinions.

All that he relies on without this perception, he takes upon trust upon the author's credit, without any knowledge of it at all. This makes me not at all wonder to fee fome men fo abound in citations, and build fo much upon authorities, it being the fole foundation on which they bottom most of their own tenets; fo that in effect they have but a fecond hand or implicit knowledge, i. e. are in the right, if fuch an one from whom they borrowed it, were in the right in that opinion which they took from him, which indeed is no knowledge at all. Writers of this or former ages may K

be good witnesses of matters of fact which they deliver, which we may do well to take upon their authority; but their credit can go no farther than this, it cannot at all affect the truth and falshood of opinions, which have no other fort of trial but reason and proof, which they themselves made use of to make themselves knowing, and so must others too that will partake in their knowledge. Indeed it is an advantage that they have been at the pains to find out the proofs, and lay them in that order that may shew the truth or probability of their conclusions; and for this we owe them great acknowledgments for faving us the pains in fearching out those proofs which they have collected for us, and which possibly, after all our pains, we might not have

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have found, nor been able to have fet them in fo good a light as that which they left them us in. Upon this account we are mightily beholding to judicious writers of all ages for those discoveries and discourses they have left behind them for our instruction, if we know how to make a right use of them; which is not to run them over in an hafty perufal, and perhaps lodge their opinions, or fome remarkable paffages in our memories, but to enter into their reasonings, examine their proofs, and then judge of the truth or falshood, probability or improbability of what they advance; not by any opinion we have entertained of the author, but by the evidence he produces, and the conviction he affords us, drawn from things themselves. Knowing is

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feeing, and if it be fo, it is madnefs to perfuade ourselves that we do fo by another man's eyes, let him use ever fo many words to tell us, that what he afferts is very visible. Till we ourselves see it with our own eyes, and perceive it by our own understandings, we are as much in the dark, and as void of knowledge as before, let us believe any learned author as much as we will.

Euclid and Archimedes are allowed to be knowing, and to have demonstrated what they fay; and yet whoever shall read over their writings without perceiving the connection of their proofs, and feeing what they shew, though he may understand all their words, yet he is not the more knowing: he may believe indeed, but does not know what they

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they fay, and so is not advanced one jot in mathematical knowledge by all his reading of those approved mathematicians.

SECTION XXIV.

HASTE.

The eagerness and strong bent of the mind after knowledge, if not warily regulated, is often an hindrance to it. It still presses into farther discoveries and new objects, and catches at the variety of knowledge, and therefore often stays not long enough on what is before it, to look into it as it should for haste, to purfue what is yet out of fight. He that rides post through a country, may be able from the transient view, to tell how in general the parts lie, and may be able to give fome K 3

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HASTE.

fome loose description of here a mountain, and there a plain, here a morafs, and there a river; woodland in one part, and favanas in another. Such fuperficial ideas and observations as these he may collect in galloping over it. But the more useful observations of the foil, plants, animals and inhabitants, with their feveral forts and properties, necessarily escape him; and it is feldom men ever discover the rich mines, without fome digging. Nature commonly lodges her treasure and jewels in rocky ground. If the matter be knotty, and the fense lies deep, the mind must stop and buckle to it, and stick upon it with labour and thought, and close contemplation, and not leave it till it has maftered the difficulty, and got possession of truth. But here care must

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must be taken to avoid the other extreme: a man must not stick at every useless nicety, and expect mysteries of science in every trivial question or scruple that he raise. He that will stand to pick up and examine every pebble that comes in his way, is as unlikely to return enriched and loaden with iewels, as the other that travelled full speed. Truths are not the better nor the worse for their obviousness or difficulty, but their value is to be measured by their usefulness and tendency. Infignificant observations should not take up any of our minutes, and those that enlarge our view, and give light towards farther and useful discoveries, should not be neglected, though they stop our course, and spend some of our time in a fixed attention.

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HASTE.

'There is another hafte that does often, and will mislead the mind if it be left to itself, and it's own conduct. The understanding is naturally forward, not only to learn it's knowledge by variety (which makes it skip over one to get speedily to another part of knowledge) but also eager to enlarge it's views by running too fast into general observations and conclusions, without a due examination of particulars enough whereon to found those general axioms. This feems to enlarge their stock, but it is of fancies not realities; fuch theories built upon narrow foundations stand but weakly, and if they fall not of themselves, are at least very hard to be supported against the affaults of oppofition. And thus men being too hasty to erect to themselves general notions

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notions and ill grounded theories, find themselves deceived in their stock of knowledge, when they come to examine their hastily assumed maxims themselves, or to have them attacked by others. General obfervations drawn from particulars, are the jewels of knowledge, comprehending great store in a little room; but they are therefore to be made with the greater care and caution, lest if we take counterfeit for true, our loss and shame be the greater when our stock comes to a fevere scrutiny. One or two particulars may fuggest hints of enquiry, and they do well to take those hints; but if they turn them into conclusions, and make them prefently general rules, they are forward indeed, but it is only to impose on themselves by propositions affumed HASTE.

assumed for truths without sufficient warrant. To make fuch observations, is, as has been already remarked, to make the head a magazine of materials, which can hardly be called knowledge, or at least it is but like a collection of lumber not reduced to use or order; and he that makes every thing an observation, has the fame useless plenty and much more falshood mixed with it. The extremes on both fides are to be avoided, and he will be able to give the hest account of his studies who keeps his understanding in the right mean between them.

SECTION XXV.

ANTICIPATION.

Whether it be a love of that which brings the first light and information

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formation to their minds, and want of vigour and industry to enquire, or else that men content themselves with any appearance of knowledge, right or wrong; which, when they have once got, they will hold fast. This is visible, that many men give themselves up to the first anticipations of their minds, and are very tenacious of the opinions that first possess them; they are often as fond of their first conceptions as of their first born, and will by no means recede from the judgment they have once made, or any conjecture or conceit which they have once entertained. This is a fault in the conduct of the understanding, fince this firmness or rather stiffness of the mind, is not from an adherence to truth, but a submission to prejudice. It is an unreasonable homage paid to

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prepoffession, whereby we shew a reverence not to (what we pretend to feek) truth; but what by haphazard we chance to light on, be it what it will. This is visibly a preposterous use of our faculties, and is a downright proftituting of the mind to refign it thus, and put it under the power of the first comer. This can never be allowed, or ought to be followed as a right way to knowledge, till the understanding (whose business it is to conform itself to what it finds on the objects without) can by it's own opiniatrety change that, and make the unalterable nature of things comply with it's own hafty determinations, which will never Whatever we fancy, things keep their course; and their habitudes, correspondences and relations, keep the fame to one another.

SECTION XXVI.

RESIGNATION.

Contrary to these, but by a like dangerous excess on the other fide, are those who always resign their judgment to the last man they heard or read. Truth never finks into these men's minds, nor gives any tincture to them, but camelion like, they take the colour of what is laid before them, and as foon lofe and refign it to the next that happens to come in their way. The order wherein opinions are proposed or received by us, is no rule of their rectitude, nor ought to be a cause of their preference. First or last in this case, is the effect of chance, and not the measure of truth or falshood. This every one must confess, and therefore should, in the pur-

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pursuit of truth, keep his mind free from the influence of any fuch accidents. A man may as reasonably draw cuts for his tenets, regulate his persuasion by the cast of a die, as take it up for it's novelty, or retain it because it had his first affent. and he was never of another mind. Well weighed reasons are to determine the judgment; those the mind should be always ready to hearken and fubmit to, and by their testimony and fuffrage, entertain or reject any tenet indifferently, whether it be a perfect stranger, or an old acquaintance.

SECTION XXVII.

PRACTICE.

Though the faculties of the mind are improved by exercise, yet they must

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must not be put to a stress beyond their strength. Quid valeant humeri, quid ferre recusent, must be made the measure of every one's understanding, who has a defire not only to perform well, but to keep up the vigour of his faculties, and not to balk his understanding by what is too hard for it. 'The mind by being engaged in a task beyond it's strength, like the body, strained by lifting at a weight too heavy, has often it's force broken, and thereby gets an unaptness or an aversion to any vigorous attempt ever after. A finew cracked feldom recovers it's former strength, or at least the tenderness of the sprain remains a good while after, and the memory of it longer, and leaves a lasting caution in the man, not to put the part quickly again to any robust employment.

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PRACTICE.

So it fares in the mind once jaded by an attempt above it's power, it either is disabled for the future, or else checks at any vigorous undertaking ever after, least is very hardly brought to exert it's force again on any subject that requires thought and meditation. The understandingshould be brought to the difficult and knotty parts of knowledge, that try the strength of thought, and a full bent of the mind by infenfible degrees; and in fuch a gradual proceeding nothing is too hard for it. Nor let it be objected, that fuch a flow progress will never reach the extent of some fciences. It is not to be imagined how far constancy will carry a man; however it is better walking flowly in a rugged way, than to break a leg, and be a cripple. He that begins

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gins with the calf may carry the ox; but he that will at first go to take up an ox, may fo disable himself, as not to be able to lift a calf after that. When the mind, by infenfible degrees, has brought itself to attention and close thinking, it will be able to cope with difficulties, and mafter them without any prejudice to itself, and then it may go on roundly. Every abstruse problem, every intricate question will not baffle, discourage, or break it. But though putting the mind unprepared upon an unufual stress that may discourage or damp it for the future, ought to be avoided; yet this must not run it, by an over great shyness of difficulties, into a lazy fauntering about ordinary and obvious things, that demand no thought or application. This debafes

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bases and enervates the understanding, makes it weak and unfit for labour. This is a fort of hovering about the furface of things, without any infight into them or penetration; and when the mind has been once habituated to this lazy recumbency and fatisfaction on the obvious furface of things, it is in danger to rest satisfied there, and go no deeper, fince it cannot do it without pains and digging. that has for some time accustomed himfelf to take up with what eafily offers itself at first view, has reason to fear he shall never reconcile himfelf to the fatigue of turning and tumbling things in his mind to difcover their more retired and more valuable fecrets.

It is not ftrange that methods of learn-

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learning which fcholars have been accustomed to in their beginning and entrance upon the sciences, should influence them all their lives, and be fettled in their minds by an overruling reverence, especially if they be fuch as universal use has established. Learners must at first be believers, and their mafters' rules having been once made axioms to them, it is no wonder they should keep that dignity, and by the authority they have once got, missead those who think it sufficient to excuse them, if they go out of their way in a well beaten track.

SECTION XXVIII.

WORDS.

I have copiously enough spoken of the abuse of words in another L2 place,

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WORDS.

place, and therefore shall upon this reflection, that the sciences are full of them, warn those that would conduct their understandings right, not to take any term, howfoever authorized by the language of the schools, to stand for any thing till they have an idea of it. A word may be of frequent use and great credit with feveral authors, and be by them made use of, as if it stood for some real being; but yet if he that reads cannot frame any distinct idea of that being, it is certainly to him a mere empty found without a meaning, and he learns no more by all that is faid of it, or attributed to it, than if it were affirmed only of that bare empty found. They who would advance in knowledge, and not deceive and fwell themselves with a little articulated

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air, should lay down this a fundamental rule, not to take words for things, nor suppose that names in books fignify real entities in nature, till they can frame clear and diffinct ideas of those entities. It will not perhaps be allowed if I should set down substantial forms and intentional species, as such that may justly be fuspected to be of this kind of infignificant terms. But this I am fure, to one that can form no determined ideas of what they stand for, they fignify nothing at all; and all that he thinks he knows about them, is to him fo much knowledge about nothing, and amounts at most but to a learned ignorance. It is not without all reason supposed, that there are many fuch empty terms to be found in some learned writers, to

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which they had recourse to etch out their fystems where their understandings could not furnish them with conceptions from things. But yet I believe the supposing of some realities in nature answering those and the like words, have much perplexed fome, and quite misled others in the study of nature. That which in any discourse fignifies, I know not what, should be considered I know not when. Where men have any conceptions, they can, if they are ever so abstruse or abstracted, explain them, and the terms they use for them. For our conceptions being nothing but ideas, which are all made up of fimple ones. If they cannot give us the ideas their words stand for, it is plain they have none. To what purpose can it be to hunt after his conceptions, who has none,

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or none distinct? He that knew not what he himself meant by a learned term, cannot make us know any thing by his use of it, let us beat our heads about it ever fo long. Whether we are able to comprehend all the operations of nature and the manners of them, it matters not to enquire; but this is certain, that we can comprehend no more of them than we can distinctly conceive: and therefore to obtrude terms where we have no diffinct conceptions, as if they did contain or rather conceal fomething, is but an artifice of learned vanity, to cover a defect in an hypothesis or our understandings. Words are not made to conceal, but to declare and flew fomething; where they are by those, who pretend to instruct, otherwise used, they conceal

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indeed fomething; but that which they conceal is nothing but the ignorance, error, or fophistry of the talker, for there is, in truth, nothing else under them.

SECTION XXIX.

WANDERING.

That there is a constant succession and flux of ideas in our minds, I have observed in the former part of this essay, and every one may take notice of it in himself. This I suppose may deserve some part of our care in the conduct of our understandings; and I think it may be of great advantage, if we can by use get that power over our minds, as to be able to direct that train of ideas, that so, since there will no new ones perpetually come into our thoughts

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thoughts by a constant succession, we may be able by choice fo to direct them, that none may come in view, but fuch as are pertinent to our present enquiry, and in such order as may be most useful to the discovery we are upon; or at least, if some foreign and unfought ideas will offer themselves, that yet we might be able to reject them, and keep them from taking off our minds from it's present pursuit, and hinder them from running away with our thoughts quite from the fubject in hand. This is not, I fuspect, so easy to be done as perhaps may be imagined; and yet, for ought I know, this may be, if not the chief, yet one of the great differences that carry some men in their reasoning so far beyond others, where they feem to be naturally of equal

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equal parts. A proper and effectual remedy for this wandering of thoughts I would be glad to find. He that shall propose such an one, would do great fervice to the studious and contemplative part of mankind, and perhaps help unthinking men to become thinking. I must acknowledge that hitherto I have discovered no other way to keep our thoughts close to their business, but the endeavouring as much as we can, and by frequent attention and application, getting the habit of attention and application. He that will observe children, will find, that even when they endeavour their uttermost, they cannot keep their minds from ftraggling. The way to cure it, I am fatisfied, is not angry chiding or beating, for that presently fills their heads with all the

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the ideas that fear, dread, or confusion can offer to them. To bring back gently their wandering thoughts, by leading them into the path, and going before them in the train they should pursue, without any rebuke, or so much as taking notice (where it can be avoided) of their roving, I suppose would sooner reconcile and inure them to attention, than all those rougher methods which more distract their thought, and hindering the application they would promote, introduce a contrary habit.

SECTION XXX.

Distinction and division are (if I mistake not the import of the words) very different things; the one being the

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the perception of a difference that nature has placed in things; the other our making a division where there is yet none; at least, if I may be permitted to confider them in this fense, I think I may say of them, that one of them is the most necessary and conducive to true knowledge that can be; the other, when too much made use of, serves only to puzzle and confound the understanding. To observe every the least difference that is in things, argues a quick and clear fight, and this keeps the understanding steady, and right in it's way to knowledge. But though it be useful to discern every variety that is to be found in nature, yet it is not convenient to confider every difference that is in things, and divide them into distinct classes under every such difference.

This

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This will run us, if followed, into particulars, (for every individual has fomething that differences it from another) and we shall be able to establish no general truths, or else at least shall be apt to perplex the mind about them. The collection of feveral things into feveral classes, gives the mind more general and larger views; but we must take care to unite them only in that; and fo far as they do agree, for fo far they may be united under the confideration. For entity itself, that comprehends all things, as general as it is, may afford us clear and rational conceptions. If we would weigh and keep in our minds what it is we are confidering, that would best instruct us when we should or should not branch into farther distinctions, which are to be taken

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taken only from a due contemplation of things; to which there is nothing more opposite than the art of verbal distinctions, made at pleafure, in learned and arbitrarily invented terms to be applied at a venture, without comprehending or conveying any distinct notions, and fo altogether fitted to artificial talk, or empty noise in dispute, without any clearing of difficulties, or advance in knowledge. Whatfoever subject we examine and would get knowledge in, we should, I think, make as general and as large as it will bear; nor can there be any danger of this, if the idea of it be fettled and determined: for if that be fo, we shall easily distinguish it from any other idea, though comprehended under the same name. For it is to fence against the intanglements

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glements of equivocal words, and the great art of fophistry which lies in them, that distinctions have been multiplied, and their use thought necessary. But had every distinct abstract idea a distinct known name, there would be little need of these multiplied scholastic distinctions, though there would be nevertheless as much need still of the mind's obferving the differences that are in things, and discriminating them thereby one from another. It is not therefore the right way to knowledge, to hunt after, and fill the head with abundance of artificial and scholastic distinctions, wherewith learned men's writings are often filled; and we fometimes find what they treat of fo divided and fubdiviled, that the mind of the most attentive reader loses the fight

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fight of it, as it is more than probable the writer himself did; for in things crumbled into dust, it is in vain to affect or pretend order, or expect clearness. To avoid confufion by too few or too many divifions, is a great skill in thinking as well as writing, which is but the copying our thoughts; but what are the boundaries of the mean between the two vitious excesses on both hands. I think is hard to fet down in words: clear and diffinct ideas is all that I yet know able to regulate it. But as to verbal distinctions received and applied to common terms, i.e. equivocal words, they are more properly, I think, the business of criticism and dictionaries than of real knowledge and philosophy, fince they, for the most part, explain the meaning of words,

and

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and give us their feveral fignifications. The dexterous management of terms, and being able to fend and prove with them, I know has and does pass in the world for a great part of learning; but it is learning distinct from knowledge, for knowledge confifts only in perceiving the habitudes and relations of ideas one to another, which is done without words; the intervention of a found helps nothing to it. And hence we fee that there is least use of distinctions where there is most knowledge; I mean in mathematics, where men have determined ideas with known names to them: and fo there being no room for equivocations, there is no need of distinctions. In arguing, the opponent uses as comprehensive and equivocal terms as he can, to involve M

volve his adversary in the doubtfulness of his expressions: this is expected, and therefore the answerer on his fide makes it his play to distinguish as much as he can, and thinks he can never do it too much: nor can he indeed in that way wherein victory may be had without truth and without knowledge. This feems to me to be the art of disputing. Use your words as captiously as you can in your arguing on one fide, and apply distinctions as much as you can on the other to every term, to nonplus your opponent; fo that in this fort of scholarship, being there bounds fet to diftinguishing, some men have thought all acuteness to have lain in it; and therefore in all they have read or thought on, their great business has been to amuse them-

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themselves with distinctions, and multiply to themselves divisions, at least, more than the nature of the thing required. There feems to me, as I said, to be no other rule for this, but a due and right consideration of things as they are in He that has fettled themselves. in his mind determined ideas with names affixed to them, will be able both to difcern their differences one from another, which is really distinguishing; and where the penury of words affords not terms, anfwering every diffinct idea, will be able to apply proper distinguishing terms to the comprehensive and equivocal names he is forced to make use of. This is all the need I know of distinguishing terms; and in fuch verbal distinctions, each term of the distinction joined to that M 2

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that whose fignification it distinguishes, is but a distinct name for a distinct idea. Where they are fo, and men have clear and distinct conceptions that answer their verbal distinctions, they are right, and are pertinent as far as they ferve to clear any thing in the fubject under confideration. And this is that which feems to me the proper and only measure of distinctions and divisions; which, he that will conduct his understanding right, must not look for in the acuteness of invention, nor the authority of writers, but will find only in the confideration of things themselves whether they are led into it by their own meditations, or the information of books.

An aptness to jumble things together,

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gether, wherein can be found any likeness, is a fault in the underfranding on the other side, which will not fail to mislead it, and by thus lumping of things, hinder the mind from distinct and accurate conceptions of them.

SECTION XXXI.

SIMILES.

To which let me here add another near of kin to this, at least in name, and that is, letting the mind upon the suggestion of any new notion, run immediately after similes to make it the clearer to itself; which, though it may be a good way and useful in the explaining our thoughts to others, yet it is by no means a right method to settle true notions of any thing in ourselves,

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because similies always fail in some part, and come short of that exactness which our conceptions should have to things, if we would think This indeed makes men aright. plaufible talkers; for those are always most acceptable in discourse, who have the way to let their thoughts into other men's minds with the greatest ease and facility, whether those thoughts are well formed and correspond with things, matters not; few men care to be instructed but at an easy rate. They who in their discourse strike the fancy, and take the hearers' conceptions along with them as fast as their words flow, are the applauded talkers, and go for the only men of clear thoughts. Nothing contributes so much to this as fimiles, whereby men think

they themselves understand better,

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because they are better understood. But it is one thing to think right, and another thing to know the right way to lay our thoughts before others with advantage and clearness, be they right or wrong. Well chosen similes, metaphors and allegories, with method and order, do this the best of any thing, because being taken from objects already known, and familiar to the understanding, they are conceived as fait as spoken; and the correspondence being concluded, the thing they are brought to explain and elucidate is thought to be understood too. Thus fancy passes for knowledge, and what is prettily faid is mistaken for solid. I fay not this to decry metaphor, or with defign to take away that ornament of fpeech; my business here is not with M 4

SIMILES.

with rhetoricians and orators, but with philosophers and lovers of truth; to whom I would beg leave to give this one rule whereby to try whether, in the application of their thoughts to any thing for the improvement of their knowledge, they do in truth comprehend the matter before them really fuch as it is in itself. The way to discover this is to observe, whether in the laying it before themselves or others, they make use only of borrowed representations and ideas foreign to the things which are applied to it by way of accommodation, as bearing fome proportion or imagined likeness to the subject under considera-Figured and metaphorical expressions do well to illustrate more abstruse and unfamiliar ideas which the mind is not yet thoroughly accustomed

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customed to; but then they must he made use of to illustrate ideas that we already have, not to paint to us those which we yet have not. Such borrowed and allufive ideas may follow real and folid truth, to fet it off when found, but must by no means be fet in it's place, and taken for it. If all our fearch has yet reached no farther than fimile and metaphor, we may affure ourfelves we rather fancy than know, and are not yet penetrated into the infide and reality of the thing, be it what it will, but content ourselves with what our imaginations, not things themselves, furnish us with.

SECTION XXXII.

ASSENT.

In the whole conduct of the understanding, there is nothing of more moment than to know when and where, and how far to give affent, and possibly there is nothing harder. It is very eafily faid, and no body questions it, that giving and withholding our affent, and the degrees of it, should be regulated by the evidence which things carry with them; and yet we fee men are not the better for this rule; fome firmly embrace doctrines upon flight grounds, fome upon no grounds, and fome contrary to appearance. Some admit of certainty, and are not to be moved in what they hold: others waver in every thing, and there want not those that reject all

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as uncertain. What then shall a novice, an enquirer, a stranger do in the case? I answer, use his eyes. There is a correspondence in things, and agreement and difagreement in ideas, difcernible in very different degrees, and there are eyes in men to fee them if they please, only their eyes may be dimmed or dazzled, and the difcerning fight in them impaired or loft. Interest and passion dazzle, the custom of arguing on any fide, even against our persuasions, dims the understanding, and makes it by degrees lofe the faculty of difcerning clearly between truth and falshood, and so of adhering to the right fide. It is not fafe to play with error, and dress it up to ourselves or others in the shape of truth. The mind by degrees loses it's natural relish of real

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real folid truth, is reconciled infenfibly to any thing that can but be dressed up into any faint appearance of it; and if the fancy be allowed the place of judgment at first in fport, it afterwards comes by use to usurp it, and what is recommended by this flatterer (that studies but to please) is received for good. There are fo many ways of fallacy, fuch arts of giving colours, appearances and refemblances by this court dreffer, the fancy, that he who is not wary to admit nothing but truth itself, very careful not to make his mind subservient to any thing elfe, cannot but be caught. He that has a mind to believe, has half affented already; and he that by often arguing against his own fense, imposes falshoods on others, is not far from believing him-

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himself. This takes away the great distance there is betwixt truth and falshood; it brings them almost together, and makes it no great odds in things that approach so near, which you take; and when things are brought to that pass, passion or interest, &c. easily, and without being perceived, determine which shall be the right.

SECTION XXXIII.

INDIFFERENCY.

I have faid above that we should keep a perfect indifferency for all opinions, not wish any of them true, or try to make them appear so; but being indifferent, receive and embrace them according as evidence, and that alone gives the attestation of truth. They that do thus.

INDIFFERENCY.

thus, i. e. keep their minds indifferent to opinions, to be determined only by evidence, will always find the understanding has perception enough to diftinguish between evidence or no evidence, betwixt plain and doubtful; and if they neither give nor refuse their assent but by that measure, they will be safe in the opinions they have. being perhaps but few, this caution will have also this good in it, that it will put them upon confidering, and teach them the necessity of examining more than they do; without which the mind is but a receptacle of inconfistences, not the storehouse of truths. They that do not keep up this indifferency in themfelves for all but truth, not fupposed, but evidenced in themselves, put coloured spectacles before their

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eyes, and look on things through false glasses, and then think themfelves excused in following the false appearances, which they themselves put upon them. I do not expect that by this way the affent should in every one be proportioned to the grounds and clearness wherewith every truth is capable to be made out, or that men should be perfectly kept from error: that is more than human nature can by any means be advanced to; I aim at no fuch unattainable privilege; I am only speaking of what they should do who would deal fairly with their own minds, and make a right use of their faculties in the pursuit of truth; we fail them a great deal more than they fail us. It is mifmanagement more than want of abilities that men have reason to

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complain of, and which they actually do complain of in those that differ from them. He that by an indifferency for all but truth, fuffers not his affent to go faster than his evidence, nor beyond it, will learn to examine, and examine fairly instead of prefuming, and no body will be at a loss or in danger for want of embracing those truths which are necessary in his station and circumstances. In any other way but this, all the world are born to orthodoxy: they imbibe at first the allowed opinions of their country and party, and so never questioning their truth, not one of an hundred ever examines. They are applauded for prefuming they are in the right. He that confiders, is a foe to orthodoxy, because possibly he may deviate from fome of the

THE UNDERSTANDING. 177 INDIFFERENCY.

received doctrines there. And thus men without any industry or acquisition of their own, inherit local truths (for it is not the same every where) and are enured to affent without evidence. This influences farther than is thought; for what one of an hundred of the zealous bigots in all parties, ever examined the tenets he is fo stiff in, or ever thought it his business or duty so to do? It is suspected of lukewarmness to suppose it necessary, and a tendency to apostacy to go about it. And if a man can bring his mind once to be positive and fierce for positions, whose evidence he has never once examined, and that in matters of greatest concernment to him, what shall keep him from this short and easy way of being in the right in cases of less moment? Thus

N we

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we are taught to clothe our minds as we do our bodies, after the fashion in vogue, and it is accounted fantasticalness, or fomething worse not to do fo. This cuftom (which who dares oppose) makes the shortfighted bigots, and the warier fceptics, as far as it prevails. And those that break from it are in danger of herefy; for taking the whole world, how much of it doth truth and orthodoxy poffess together? Though it is by the last alone (which has the good luck to be every where) that error and herely are judged of; for argument and evidence fignify nothing in the case, and excuse no where, but are fure to be borne down in all focieties by the infallible orthodoxy of the place. ther this be the way to truth and right affent, let the opinions that take

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take place and prescribe in the several habitable parts of the earth, declare. I never saw any reason yet why truth might not be trusted to it's own evidence: I am sure if that be not able to support it, there is no sence against error, and then truth and falshood are but names that stand for the same things. Evidence therefore is that by which alone every man is (and should be) taught to regulate his assent, who is then and then only in the right way when he follows it.

Men deficient in knowledge, are usually in one of these three states, either wholly ignorant, or as doubting of some proposition they have either embraced formerly, or at present are inclined to: or, lassly, they do with assurance hold and

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INDIFFERENCY.

profess without ever having examined, and been convinced by well grounded arguments.

The first of these are in the best state of the three, by having their minds yet in their perfect freedom and indifferency, the likelier to pursue truth the better, having no bias yet clapped on to mislead them.

SECTION XXXIV.

IGNORANCE WITH INDIFFERENCY.

For ignorance with an indifferency for truth is nearer to it, than opinion with ungrounded inclination, which is the great fource of error; and they are more in danger to go out of the way, who are marching under the conduct of a guide, that it is an hundred to one will

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IGNORANCE WITH INDIFFERENCY. will mislead them, than he that has not yet taken a step, and is likelier to be prevailed on to enquire after the right way. The last of the three forts are in the worst condition of all; for if a man can be perfuaded and fully affured of any thing for a truth, without having examined what is there that he may not embrace for truth; and if he has given himself up to believe a lie, what means is there left to recover one who can be affured without examining? To the other two, this I crave leave to fay, that as he that is ignorant is in the best state of the two, fo he should pursue truth in a method fuitable to that state, i. e. by enquiring directly into the nature of the thing itself, without minding the opinions of others, or troubling himfelf with their N 3 quel-

IGNORANCE WITH INDIFFERENCY. questions or disputes about it, but to fee what he himfelf can, fincerely fearching after truth, find out. He that proceeds upon other principles in his enquiry into any fciences, though he be refolved to examine them and judge of them freely, does yet at least put himself on that side, and post himself in a party which he will not quit till he be beaten out; by which the mind is infenfibly engaged to make what defence it can, and so is unawares biassed. I do not fay but a man should embrace fome opinion when he has examined, else he examines to no purpose; but the furest and safest way is to have no opinion at all till he has examined, and that without any the least regard to the opinions or fystems of other men about it. For example, were it my business to understand

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IGNORANCE WITH INDIFFERENCY. derstand physic, would not the safer and readier way be to confult nature herself, and inform myself in the history of diseases and their cures, than espousing the principles of the dogmatists, methodists or chymists, engage in all the disputes concerning either of those systems, and suppose it to be true, till I have tried what they can fay to beat me out of it. Or, supposing that Hippocrates, or any other book, infallibly contains the whole art of physic, would not the direct way be to study, read and consider that book, weigh and compare the parts of it to find the truth, rather than efpoufe the doctrines of any party? who, though they acknowledge his authority, have already interpreted and wiredrawn all his text to their own fense: the tincture whereof when N 4.

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IGNORANCE WITH INDIFFERENCY. when I have imbibed, I am more in danger to mifunderstand his true meaning, than if I had come to him with a mind unprepoffeffed by doctors and commentators of my fect, whose reasonings, interpretation and language, which I have been used to, will of course make all chime that way, and make another, and perhaps the genuine meaning of the author feem harth, strained and uncouth to me. For words having naturally none of their own, carry that fignification to the hearer, that he is used to put upon them, whatever be the fense of him that uses them. This, I think, is visibly so; and if it be, he that begins to have any doubt of any of his tenets, which he received without examination, ought, as much as he can, to put himself

wholly

THE UNDERSTANDING. 185 IGNORANCE WITH INDIFFERENCY. wholly into this state of ignorance in reference to that question, and throwing wholly by all his former notions, and the opinions of others, examine, with a perfect indifferency, the question in it's source, without any inclination to either fide, or any regard to his or others' unexamined opinions. This I own is no eafy thing to do, but I am not enquiring the easy way to opinion, but the right way to truth; which they must follow who will deal fairly with their own understandings and

SECTION XXXV.

their own fouls.

QUESTION.

The indifferency that I here propose, will also enable them to state the question right, which they are

QUESTION.

in doubt about, without which they can never come to a fair and clear decision of it.

SECTION XXXVI.

PERSEVERANCE.

Another fruit from this indifferency, and the confidering things in themselves, abstract from our own opinions and other men's notions, and discourses on them, will be that each man will purfue his thoughts in that method which will be most agreeable to the nature of the thing, and to his apprehension of what it suggests to him; in which he ought to proceed with regularity and conftancy, until he come to a wellgrounded resolution wherein he may acquiesce. If it be objected that this will require every man to

THE UNDERSTANDING. 187 PERSEVERANCE.

be a scholar, and quit all his other business, and betake himself wholly to study. I answer, I propose no more to any one than he has time for. Some men's state and condition requires no great extent of knowledge; the necessary provision for life swallows the greatest part of their time. But one man's want of leifure is no excuse for the oscitancy and ignorance of those who have time to spare; and every one has enough to get as much knowledge as is required and expected of him, and he that does not that, is in love with ignorance, and is accountable for it.

SECTION XXXVII.

PRESUMPTION.

The variety of distempers in men's minds, is as great as of those in their bodies; some are epidemic, few escape them, and every one too, if he would look into himself, would find fome defect of his particular genius. There is fcarce any one without fome idiofyncrafy that he fuffers by. This man prefumes upon his parts, that they will not fail him at time of need, and fo thinks it superfluous labour to make any provision before hand. understanding is to him like Fortunatus's purse, which is always to furnish him without ever putting any thing into it before hand; and fo he fits still fatisfied, without endeavouring to store his understand-

THE UNDERSTANDING. 189 PRESUMPTION.

ing with knowledge. It is the fpontaneous product of the country, and what need of labour in tillage? Such men may spread their native riches before the ignorant; but they were best not come to stress and trial with the skilful. We are born ignorant of every thing. The fuperficies of things that furround them, makes impressions on the negligent, but no body penetrates into the infide without labour, attention and industry. Stones and timber grow of themselves, but yet there is no uniform pile with fymmetry and convenience to lodge in without toil and pains. God has made the intellectual world harmonious and beautiful without us; but it will never come into our heads all at once, we must bring it home piecemeal, and there fet it up by

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PRESUMPTION.

by our own industry, or else we shall have nothing but darkness and a chaos within, whatever order and light there be in things without us.

SECTION XXXVIII.

DESPONDENCY.

On the other fide, there are others that depress their own minds, defpond at the first difficulty, and conclude that the getting an infight in any of the sciences, or making any progress in knowledge, farther than ferves their ordinary business, is above their capacities. These sit still, because they think they have not legs to go as the others I last mentioned do, because they think they have wings to fly, and can foar on high when they pleafe. Τo these latter one may for answer apply

THE UNDERSTANDING. 191 DESPONDENCY.

ply the proverb, Use legs and have legs. No body knows what strength of parts he has till he has tried them. And of the understanding one may most truly say, that it's force is greater generally than it thinks, till it is put to it. Viresque acquirit eundo.

And therefore the proper remedy here is but to fet the mind to work, and apply the thoughts vigorously to the business; for it holds in the struggles of the mind, as in those of war, Dum putant se vincere, vicere; a persuasion that we shall overcome any difficulties that we meet with in the sciences, seldom fails to carry us through them. No body knows the strength of his mind, and the force of steady and regular application till he has tried. This is certain,

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tain, he that fets out upon weak legs, will not only go farther, but grow stronger too than one who with a vigorous constitution and firm limbs, only sits still.

Something of kin to this men may observe in themselves, when the mind frights itself (as it often does) with any thing reflected on in grofs, and transiently viewed confusedly and at a distance. Things thus offered to the mind, carry the shew of nothing but difficulty in them, and are thought to be wrapped up in impenetrable obscurity. But the truth is, these are nothing but spectres that the understanding raises to itself to flatter it's own laziness. It fees nothing distinctly in things remote, and in a huddle, and therefore concludes too faintly, that there

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there is nothing more clear to be discovered in them. It is but to approach nearer, and that mist of our own raising that inveloped them, will remove; and those that in that mist appeared hideous giants not to be grappled with, will be found to be of the ordinary and natural fize and shape. Things that in a remote and confused view seem very obscure, must be approached by gentle and regular steps; and what is most visible, easy and obvious in them first considered. duce them into their distinct parts; and then in their due order bring all that should be known concerning every one of those parts, into plain and fimple questions; and then what was thought obscure, perplexed, and too hard for our weak parts, will lay itself open to the O

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the understanding in a fair view, and let the mind into that which before it was awed with, and kept at a distance from, as wholly mysterious. I appeal to my reader's experience, whether this has never happened to him, especially when bufy on one thing, he has occafionally reflected on another. him, whether he has never thus been scared with a sudden opinion of mighty difficulties, which yet have vanished, when he has seriously and methodically applied himself to the confideration of this feeming terrible subject; and there has been no other matter of astonishment left, but that he amused himself with so discouraging a prospect of his own raifing about a matter, which in the handling was found to have nothing in it more strange nor intricate

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tricate than feveral other things which he had long fince, and with ease mastered? This experience would teach us how to deal with fuch bugbears another time, which should rather serve to excite our vigor than enervate our industry. The furest way for a learner in this as in all other cases, is not to advance by jumps and large strides; let that which he fets himself to learn next, be indeed the next, i. e. as nearly conjoined with what he knows already as is possible; let it be distinct but not remote from it: let it be new and what he did not know before, that the understanding may advance; but let it be as little at once as may be, that it's advances may be clear and fure. All the ground that it gets this way it will hold. This distinct gradual growth 02

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growth in knowledge is firm and fure, it carries it's own light with it in every step of it's progression in an easy and orderly train, than which there is nothing of more use to the understanding. And though this perhaps may feem a very flow and lingering way to knowledge, yet I dare confidently affirm, that whoever will try it in himself, or any one he will teach, shall find the advances greater in this method, than they would in the same space of time have been in any other he could have taken. The greatest part of true knowledge lies in a distinct perception of things themselves distinct. And some men give more clear light and knowledge by the bare distinct stating of a question, than others by taking of it in groß whole hours together. In this,

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this, they who fo state a question, do no more but separate and disentangle the parts of it one from another, and lay them, when so disentangled, in their due order. This often, without any more ado, refolves the doubt, and shews the mind where the truth lies. 'The agreement or difagreement of the ideas in question, when they are once separated and distinctly confidered, is, in many cases, presently perceived, and thereby clear and lasting knowledge gained; whereas things in gross taken up together, and fo lying together in confusion, can produce in the mind but a confused, which in effect, is no knowledge; or at least when it comes to be examined and made use of, will prove little better than none. therefore take the liberty to repeat here 0 3

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here again what I have faid elsewhere, that in learning any thing, as little should be proposed to the mind at once as is possible; and that being understood and fully mastered, to proceed to the next adjoining part yet unknown, simple, unperplexed proposition belonging to the matter in hand, and tending to the clearing what is principally designed.

SECTION XXXIX.

ANALOGY.

Analogy is of great use to the mind in many cases, especially in natural philosophy, and that part of it chiefly which consists in happy and successful experiments. But here we must take care that we keep ourselves within that wherein the analogy

THE UNDERSTANDING. 199 ANALOGY.

analogy confifts. For example, the acid oil of vitriol is found to be good in fuch a case, therefore the spirit of nitre or vinegar may be used in the like case. If the good effect of it be owing wholly to the acidity of it, the trial may be justified; but if there be something else besides the acidity in the oil of vitriol, which produces the good we desire in the case, we mistake that for analogy, which is not, and suffer our understanding to be misguided by a wrong supposition of analogy where there is none.

SECTION XL.

ASSOCIATION.

Though I have in the fecond book of my effay concerning human understanding, treated of the affoo 4 ciation

ASSOCIATION.

ciation of ideas; yet having done it there historically, as giving a view of the understanding in this as well as it's feveral other ways of operating, rather than defigning there to enquire into the remedies, that ought to be applied to it. It will, under this latter confideration, afford other matter of thought to those who have a mind to infruct themselves thoroughly in the right way of conducting their understandings; and that the rather, because this, if I mistake not, is as frequent a cause of mistake and error in us, as perhaps any thing elfe that can be named; and is a difease of the mind as hard to be cured as any; it being a very hard thing to convince any one that things are not fo, and naturally fo, as they constantly appear to him.

Ву

THE UNDERSTANDING, 201 ASSOCIATION.

By this one easy and unheeded miscarriage of the understanding, fandy and loofe foundations become infallible principles, and will not fuffer themselves to be touched or questioned: such unnatural connections become by custom as natural to the mind, as fun and light. Fire and warmth go together, and fo feem to carry with them as natural an evidence as felfevident truths themselves. And where then shall one with hopes of fuccess begin the cure? Many men firmly embrace falshood for truth; not only because they never thought otherwise, but also because thus blinded as they have been from the beginning, they never could think otherwise; at least without a vigor of mind able to contest the empire of habit, and look into it's own principles;

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a freedom which few men have the notion of in themselves, and fewer are allowed the practice of by others; it being the great art and business of the teachers and guides in most fects, to suppress, as much as they can, this fundamental duty which every man owes himfelf, and is the first steady step towards right and truth in the whole train of his actions and opinions. This would give one reason to suspect, that such teachers are conscious to themselves of the falshood or weakness of the tenets they profess, since they will not fuffer the grounds whereon they are built to be examined; whereas those who seek truth only, and defire to own and propagate nothing else, freely expose their principles to the test, are pleased to have them examined, give men leave to reject them

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them if they can; and if there be any thing weak and unfound in them, are willing to have it detected, that they themselves, as well as others, may not lay any stress upon any received proposition beyond what the evidence of it's truth will warrant and allow.

There is, I know, a great fault among all forts of people of principling their children and scholars; which at last, when looked into, amounts to no more, but making them imbibe their teachers' notions and tenets, by an implicit faith, and firmly to adhere to them whether true or false. What colours may be given to this, or of what use it may be when practised upon the vulgar, destined to labour, and given up to the service of their belies.

2C4 THE CONDUCT OF ASSOCIATION.

lies, I will not here enquire. But as to the ingenuous part of mankind, whose condition allows them leifure, and letters, and enquiry after truth; I can see no other right way of principling them, but to take heed, as much as may be, that in their tender years, ideas that have no natural cohesion come not to be united in their heads, and that this rule be often inculcated to them to be their guide in the whole courfe of their lives and studies, viz. that they never fuffer any ideas to be joined in their understandings, in any other or stronger combination than what their own nature and correspondence give them; and that they often examine those that they find linked together in their minds, whether this affociation of ideas be from the visible agreement that is

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in the ideas themselves, or from the habitual and prevailing custom of the mind joining them thus together in thinking.

This is for caution against this evil, before it be thoroughly riveted by custom in the understanding; but he that would cure it when habit has established it, must nicely observe the very quick, and almost imperceptible motions of the mind in it's habitual actions. What I have faid in another place about the change of the ideas of fense into those of judgment, may be proof of this. Let any one not skilled in painting, be told when he fees bottles and tobacco pipes, and other things fo painted, as they are in fome places shewn, that he does not fee protuberances, and you will

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not convince him but by the touch: he will not believe that by an instantaneous legerdemain of his own thoughts, one idea is substituted for the other. How frequent instances may one meet with of this in the arguings of the learned, who not feldom in two ideas that they have been accustomed to join in their minds, substitute one for the other; and, I am apt to think, often without perceiving it themselves. This, whilst they are under the deceit of it, makes them incapable of conviction, and they applaud themselves as zealous champions for truth, when indeed they are contending for error. And the confusion of two different ideas, which a customary connection of them in their minds hath made to them, almost one, fills their heads with false views, and

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and their reasonings with false consequences.

SECTION XLI. FALLACIES.

Right understanding confists in the discovery and adherence to truth, and that in the perception of the vifible or probable agreement or difagreement of ideas, as they are affirmed and denied one of another. From whence it is evident, that the right use and conduct of the understanding, whose business is purely truth and nothing elfe, is, that the mind should be kept in a perfect indifferency, not inclining to either fide, any farther than evidence fettles it by knowledge, or the overbalance of probability gives it the turn of affent and belief; but

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yet it is very hard to meet with any discourse, wherein one may not perceive the author not only maintain (for that is reasonable and fit) but inclined and biaffed to one fide of the question, with marks of a desire that that should be true. If it be asked me, how authors who have fuch a bias and lean to it may be discovered? I answer, by observing how in their writings or arguings, they are often led by their inclinations to change the ideas of the question, either by changing the terms, or by adding and joining others to them, whereby the ideas under confideration are fo varied. as to be more ferviceable to their purpose, and to be thereby brought to an easier and nearer agreement, or more visible and remoter difagreement one with another. This

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is plain and direct fophistry; but I am far from thinking, that whereever it is found it is made use of with defign to deceive and miflead the readers. It is visible that men's prejudices and inclinations by this way impose often upon themselves; and 'their affection for truth, under their prepoffession in favour of one fide, is the very thing that leads them from it. Inclination fuggefts and flides into their discourse favourable terms, which introduce favourable ideas, till at last by this means, that is concluded clear and evident, thus dreffed up, which taken in it's native state, by making use of none but the precise determined ideas, would find no admittance at all. The putting these glosses on what they affirm, these, as they are thought, handsome, easy, and graceful explications of what

FALLACIES.

what they are discoursing on, is so much the character of what is called and esteemed writing well, that it is very hard to think that authors will ever be perfuaded to leave what serves so well to propagate their opinions, and procure themselves credit in the world, for a more jejune and dry way of writing, by keeping to the same terms precisely annexed to the same ideas, a sour and blunt stiffness tolerable in mathematicians only, who force their way, and make truth prevail by irressiftible demonstration.

But yet if authors cannot be prevailed with to quit the loofer, though more infinuating ways of writing, if they will not think fit to keep close to truth and instruction by unvaried terms, and plain unsophisticated arguments, yet it con-

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cerns readers not to be imposed on by fallacies, and the prevailing ways of infinuation. To do this, the furest and most effectual remedy is, to fix in the mind the clear and diffinct ideas of the question stripped of words; and fo likewife in the train of argumentation, to take up the author's ideas, neglecting his words, observing how they connect or separate those in the question. He that does this will be able to cast off all that is superfluous; he will see what is pertinent, what coherent, what is direct to, what flides by the question. This will readily shew him all the foreign ideas in the difcourse, and where they were brought in; and though they perhaps dazzled the writer, yet he will perceive that they give no light nor strength to his reasonings.

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This, though it be the shortest and easiest way of reading books with profit, and keeping one's felf from being misled by great names or plaufible discourses; yet it being hard and tedious to those who have not accustomed themselves to it: it is not to be expected that every one (amongst those few who really purfue truth) should this way guard his understanding from being imposed on by the wilful, or at least undefigned fophistry, which creeps into most of the books of argu-They that write against ment. their conviction, or that next to them, are refolved to maintain the tenets of a party they are engaged in, cannot be supposed to reject any arms that may help to defend their cause, and therefore such should be read with the greatest caution. And they who write for opinions they

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are fincerely perfuaded of, and believe to be true, think they may fo far allow themselves to indulge their laudable affection to truth, as to permit their esteem of it, to give it the best colours, and set it off with the best expressions and dress they can, thereby to gain it the easiest entrance into the minds of their readers, and fix it deepest there.

One of those being the state of mind we may justly suppose most writers to be in, it is sit their readers, who apply to them for instruction, should not lay by that caution which becomes a sincere pursuit of truth, and should make them always watchful against whatever might conceal or misrepresent it. If they have not the skill of representing to themselves the author's

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fense by pure ideas separated from founds, and thereby divested of the false lights and deceitful ornaments of speech; this yet they should do, they should keep the precise question steadily in their minds, carry it along with them through the whole discourse, and suffer not the least alteration in the terms, either by addition, fubtraction, or fubflituting any other. This every one can do who has a mind to it; and he that has not a mind to it, it is plain makes his understanding only the warehouse of other men's lumber; I mean false and unconcluding reasonings, rather than a repository of truth for his own use, which will prove fubstantial, and stand him in flead when he has occasion for it. And whether fuch an one deals fairly by his own mind, and conducts

ducts his own understanding right, I leave to his own understanding to judge.

SECTION XLII.

FUNDAMENTAL VERITIES.

The mind of man being very narrow, and fo flow in making acquaintance with things, and taking in new truths, that no one man is capable, in a much longer life than our's, to know all truths; it becomes our prudence in our fearch after knowledge, to employ our thoughts about fundamental and material questions, carefully avoiding those that are trifling, and not suffering ourselves to be diverted from our main even purpose, by those that are merely incidental. How much of many young men's time is thrown

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away in purely logical enquiries, I need not mention. This is no better than if a man who was to be a painter, should spend all his time in examining the threads of the feveral cloths he is to paint upon, and counting the hairs of each pencil and brush he intends to use in the laying on of his colours. Nay, it. is much worse than for a young painter to fpend his apprenticeship in fuch useless niceties; for he at the end of all his pains to no purpose, finds that it is not painting, nor any help to it, and fo is really to no purpose. Whereas men defigned for scholars have often their heads fo filled and warmed with disputes on logical questions, that they take those airy useless notions for real and substantial knowledge, and think their understandings so well

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well furnished with science, that they need not look any farther into the nature of things, or descend to the mechanical drudgery of experiment and enquiry. This is fo obvious a mismanagement of the understanding, and that in the professed way to knowledge, that it could not be passed by; to which might be joined abundance of queftions, and the way of handling them in the schools. What faults in particular of this kind, every man is, or may be guilty of, would be infinite to enumerate; it suffices to have shewn that superficial and flight discoveries and observations that contain nothing of moment in themselves, nor serve as clues to lead us into farther knowledge, should be lightly passed by, and never thought worth our fearching after.

There

FUNDAMENTAL VERITIES.

There are fundamental truths that lie at the bottom, the basis upon which a great many others rest, and in which they have their confistency. These are teeming truths, rich in store, with which they furnish the mind, and, like the lights of heaven, are not only beautiful and entertaining in themselves, but give light and evidence to other things, that without them could not be feen or known. Such is that admirable discovery of Mr. Newton, that all bodies gravitate to one anther, which may be counted as the basis of natural philosophy; which of what use it is to the understanding of the great frame of our folar fystem, he has to the astonishment of the learned world shewn, and how much farther it would guide us in other things, if rightly purfued

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fued is not yet known. Our Saviour's great rule, that we fhould love our neighbour as ourfelves, is fuch a fundamental truth for the regulating human fociety; that, I think, by that alone, one might without difficulty, determine all the cases and doubts in social morality. These, and such as these, are the truths we should endeavour to find out, and store our minds with. Which leads me to another thing in the conduct of the understanding that is no less necessary, viz.

SECTION XLIII.

BOTTOMING.

To accustom ourselves in any question proposed to examine and find out upon what it bottoms. Most of the difficulties that come in BOTTOMING.

in our way, when well confidered and traced, lead us to some propofition, which known to be true, clears the doubt, and gives an easy folution of the question, whilst topical and superficial arguments, of which there is store to be found on both fides, filling the head with variety of thoughts, and the mouth with copious discourse, serve only to amuse the understanding, and entertain company without coming to the bottom of the question, the only place of rest and stability for an inquisitive mind, whose tendency is only to truth and knowledge.

For example, if it be demanded, whether the grand feignior can lawfully take what he will from any of his people? This question cannot be refolved without coming

BOTTOMING.

to a certainty, whether all men are naturally equal; for upon that it turns, and that truth well fettled in the understanding, and carried in the mind through the various debates concerning the various rights of men in society, will go a great way in putting an end to them, and shewing on which side the truth is.

SECTION XLIV.

TRANSFERRING OF THOUGHTS.

There is scarce any thing more for the improvement of knowledge, for the ease of life, and the dispatch of business, than for a man to be able to dispose of his own thoughts; and there is scarce any thing harder in the whole conduct of the understanding, than to get a full mastery

TRANSFERRING OF THOUGHTS.

over it. The mind, in a waking man, has always fome object that it applies itself to; which, when we are lazy or unconcerned, we can eafily change, and at pleafure transfer our thoughts to another, and from thence to a third, which has no relation to either of the former. Hence men forwardly conclude, and frequently fay, nothing is so free as thought, and it were well it were fo; but the contrary will be found true in feveral instances; and there are many cases wherein there is nothing more resty and ungovernable than our thoughts: they will not be directed what objects to purfue, nor be taken off from those they have once fixed on, but run away with a man in pursuit of those ideas they have in view, let him do what he can.

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TRANSFERRING OF THOUGHTS.

I will not here mention again what I have above taken notice of, how hard it is to get the mind narrowed by a custom of thirty or forty years standing to a scanty collection of obvious and common ideas, to enlarge itself to a more copious stock, and grow into an acquaintance with those that would afford more abundant matter of useful contemplation; it is not of this I am here speaking. The inconvenience I would here represent and find a remedy for, is the difficulty there is fometimes to transfer our minds from one subject to another, in cases where the ideas are equally familiar to us.

Matters that are recommended to our thoughts by any of our passions, take possession of our minds with a kind

TRANSFERRING OF THOUGHTS.

kind of authority, and will not be kept out or diflodged, but as if the passion that rules, were, for the time, the sheriff of the place, and came with all the posse, the understanding is seized and taken with the object it introduces, as if it had a legal right to be alone confidered there. There is fcarce any body, I think, of so calm a temper who hath not fometime found this tyranny on his understanding, and fuffered under the inconvenience of it. Who is there almost whose mind, at fome time or other, love or anger, fear or grief, has not fo fastened to some clog, that it could not turn itself to any other object? I call it a clog, for it hangs upon the mind fo as to hinder it's vigour and activity in the pursuit of other contemplations, and advances itself little

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little or not at all in the knowledge of the thing which it so closely hugs and constantly pores on. Men thus possessed, are sometimes as if they were so in the worst sense, and lay under the power of an inchantment. They fee not what paffes before their eyes; hear not the audible discourse of the company; and when by any ftrong application to them they are roused a little, they are like men brought to themselves from some remote region; whereas in truth they come no farther than their fecret cabinet within, where they have been wholly taken up with the puppet, which is for that time appointed for their entertainment. The shame that such dumps cause to wellbred people, when it carries them away from the company, where they should bear a part in

TRANSFERRING OF THOUGHTS.

in the conversation, is a sufficient argument, that it is a fault in the conduct of our understanding, not to have that power over it as to make use of it to those purposes, and on those occasions wherein we have need of it's affiftance. mind should be always free and ready to turn itself to the variety of objects that occur, and allow them as much confideration as shall for that time be thought fit. ingroffed fo by one object, as not to be prevailed on to leave it for another that we judge fitter for our contemplation, is to make it of no use to us. Did this state of mind remain always fo, every one would, without scruple, give it the name of perfect madness; and whilst it does last, at whatever intervals it returns, fuch a rotation of thoughts about the

TRANSFERRING OF THOUGHTS.

the fame object no more carries us forwards towards the attainment of knowledge, than getting upon a mill horse whilst he jogs on in his circular track would carry a man a journey.

I grant fomething must be allowed to legitimate passions, and to natural inclinations. Every man, besides occasional affections, has beloved studies, and those the mind will more closely stick to; but yet it is best that it should be always at liberty, and under the free disposal of the man, to act how, and upon what he directs. This we should endeavour to obtain, unless we would be content with such a slaw in our understandings, that sometimes we should be as it were without it; for it is very little better than

TRANSFERRING OF THOUGHTS.

fo in cases where we cannot make use of it to those purposes we would, and which stand in present need of it.

But before fit remedies can be thought on for this difease, we must know the several causes of it, and thereby regulate the cure, if we will hope to labour with success.

One we have already instanced in, whereof all men that reflect have so general a knowledge, and so often an experience in themselves, that no body doubts of it. A prevailing passion so pins down our thoughts to the object and concern of it, that a man passionately in love, cannot bring himself to think of his ordinary affairs, or a kind mother drooping under the loss of a child,

TRANSFERRING OF THOUGHTS.

is not able to bear a part as she was wont in the discourse of the company or conversation of her friends.

But though passion be the most obvious and general, yet it is not the only cause that binds up the understanding, and confines it for the time to one object, from which it will not be taken off.

Besides this, we may often find that the understanding when it has a while employed itself upon a subject which either chance, or some slight accident, offered to it without the interest or recommendation of any passion, works itself into a warmth, and by degrees gets into a career, wherein, like a bowl down a hill, it increases it's motion by going,

and will not be ftopped or diverted, though, when the heat is over, it fees all this earnest application was about a triffe not worth a thought, and all the pains employed about it, lost labour.

There is a third fort, if I mistake not, yet lower than this; it is a fort of childishness, if I may so say, of the understanding, wherein, during the fit, it plays with, and dandles fome infignificant puppet to no end, nor with any defign at all, and yet cannot eafily be got off from it. Thus some trivial sentence, or a scrap of poetry will fometimes get into men's heads, and make fuch a chiming there, that there is no stilling of it; no peace to be obtained, nor attention to any thing else, but this impertinent guest will take

TRANSFERRING OF THOUGHTS.

take up the mind and possess the thoughts in spight of all endeavours to get rid of it. Whether every one hath experimented in them. felves this troublesome intrusion of fome frisking ideas which thus importune the understanding, and hinder it from being better employed, I know not. But persons of very good parts, and those more than one, I have heard speak and complain of it themselves. reason I have to make this doubt, is from what I have known in a cafe fomething of kin to this, though much odder, and that is of a fort of visions that some people have lying quiet but perfectly awake in the dark, or with their eyes shut. is a great variety of faces, most commonly very odd ones, that appear to them in a train one after an-

Q4 other

TRANSFERRING OF THOUGHTS.

other; fo that having had just the fight of the one, it immediately passes away to give place to another, that the same instant succeeds, and has as quick an exit as it's leader, and fo they march on in a constant succession; nor can any one of them by any endeavour be stopped or retained beyond the instant of it's appearance, but is thrust out by it's follower, which will have it's turn. Concerning this fantastical phænomenon, I have talked with feveral people, whereof fome have been perfectly acquainted with it, and others have been fo wholly strangers to it, that they could hardly be brought to conceive or believe it. I knew a lady of excellent parts, who had got past thirty without having ever had the least notice of any fuch thing; she was so great a stranger

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stranger to it, that when she heard me and another talking of it, could fcarce forbear thinking we bantered her; but sometime after drinking a large dose of dilute tea (as she was ordered by a physician) going to bed, she told us at next meeting, that she had now experimented what our discourse had much ado to perfuade her of. She had feen a great variety of faces in a long train, fucceeding one another, as we had described, they were all strangers and intruders, fuch as she had no acquaintance with before, nor fought after then, and as they came of themselves they went too; none of them stayed a moment, nor could be detained by all the endeavours fhe could use, but went on in their folemn procession, just appeared and then vanished. This odd phænomenon

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menon feems to have a mechanical cause, and to depend upon the matter and motion of the blood or animal spirits.

When the fancy is bound by paffion, I know no way to fet the mind free and at liberty to profecute what thoughts the man would make choice of but to allay the prefent passion, or counterbalance it with another, which is an art to be got by study, and acquaintance with the passions.

Those who find themselves apt to be carried away with the spontaneous current of their own thoughts, not excited by any passion or interest, must be very wary and careful in all the instances of it to stop it, and never humour their minds in being

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being thus triflingly busy. know the value of their corporal liberty, and therefore fuffer not willingly fetters and chains to be put upon them. To have the mind captivated, is, for the time, certainly the greater evil of the two, and deferves our utmost care and endeavours to preserve the freedom of our better part. In this case our pains will not be lost; striving and struggling will prevail, if we constantly, in all such occafions, make use of it. We must never indulge these trivial attentions of thought; as foon as we find the mind makes itself a business of nothing, we should immediately disturb and check it, introduce new and more ferious confiderations, and not leave till we have beaten it off from the pursuit it was upon. This,

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This, at first, if we have let the contrary practice grow to an habit, will perhaps be difficult; but constant endeavours will by degrees prevail, and at last make it easy. And when a man is pretty well advanced, and can command his mind off at pleasure from incidental and undefigned pursuits, it may not be amiss for him to go on farther, and make attempts upon meditations of greater moment, that at the last he may have a full power over his own mind, and be fo fully master of his own thoughts, as to be able to transfer them from one subject to another, with the same ease that he can lay by any thing he has in hand, and take something else that he has a mind to in the room of it. This liberty of mind is of great use both in business and study, and

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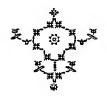
he that has got it will have no small advantage of ease and dispatch in all that is the chosen and useful employment of his understanding.

The third and last way which I mentioned the mind to be fometimes taken up with, I mean the chiming of fome particular words or fentence in the memory, and, as it were, making a noise in the head, and the like, feldom happens but when the mind is lazy or very loofely and negligently employed. were better indeed be without fuch impertinent and useless repetitions. Any obvious idea when it is roving causelessly at a venture, being of more use and apter to suggest fomething worth confideration, than the infignificant buz of purely empty founds. But fince the roufing of the

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the mind, and fetting the underftanding on work with some degrees of vigor, does for the most part presently set it free from these idle companions; it may not be amiss whenever we find ourselves troubled with them, to make use of so prositable a remedy that is always at hand.



AN

ABSTRACT

O F

MR. LOCKE'S ESSAY

O N

HUMAN UNDERSTANDING.







AN

ABSTRACT

O F

MR. LOCKE'S ESSAY, &c.

WEEN come into the world without any idea or prinriciple, either speculative or practical; but all our ideas arise either from Sensation, or Restection.

An idea is whatsoever is perceived, or thought on; and is either,

First, Simple; or,
Secondly, Complex.

R
First:

First: A SIMPLE IDEA is one uniform appearance, representation, or perception of the mind, without alteration or variety: - Here three things are to be confidered:

Ist. The manner of their conveyance, or being in the mind.

2dly. The objects from without, that affect the mind.

3dly. The mind itself.

- ist. The manner of their conveyance into the mind: Some fimple ideas come in by fenfation only; fome by reflection only; fome both by fenfation and reflection.
- 1. By fenfation only; and thefe either by the fensation of one sense, as light and colour by the eye, found by the ear, taste by the palate, odours

MR. LOCKE'S ESSAY, &c. 243 by the nose, the ideas of solidity and other tangible qualities, as heat, cold, &c. by the touch; or of several senses, as the ideas of motion and rest, space, extension, and sigure.

- 2. By reflection only; as perception or thinking, volition or willing, and their feveral modes.
- 3. Simple ideas, both by fenfation and reflection; and these are either pain, pleasure, existence, or unity.

2dly. Objects from without, that affect the mind: and they are,

1. Primary qualities of bodies; fuch as motion, rest, figure, and texture, which are in the bodies themselves, whether perceived or not.

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2. The feveral dispositions in bodies to produce several sensations in us; whence colours, sounds, tastes, &c. which are indeed only sensations produced in the animal by the operation, or action of such primary qualities.

3dly. The mind itself: and therein are three faculties;

- 1. Of Perception.
- 2. Of Retention; which is twofold:
- (1.) Either the keeping the fame ideas actually in view, which we call Contemplation.
- (2.) Or reviving them when they are gone, which we call Memory.
- 3. Of Discernment; which contains a threefold power:

(1.) Of

- (1.) Of comparing the feveral ideas; and on fuch comparison, observing their resemblances, which is called Wit; or observing their minutest differences, which is called Judgment.
- (2.) The power of compounding our ideas; which is, 1. By carrying feveral fimple ideas into the fame reprefentation: or, 2. By the repetition of the fame idea, which is called Enlarging.
- (3.) The power of abstracting; which is the separating any idea from the circumstances of real existence, as from time, place, and other concomitant ideas.

Secondly: Complex ideas confift of feveral fimple ideas united in the same representation, appearance, or perception: and they either come

R 3 into

into the mind thus united from the operation of things without us; as the idea of folidity and figure, is caused by the same ball; therefore in the complex idea of the ball, we conceive such ideas as are co-existent and concomitant: or else when such simple ideas are united by the mind; as in the idea of law, obligation, &cc.

Complex ideas are of three forts:

I. Of Modes.

II. Substances.

III. Relations.

I. Of Modes; which are again twofold:

1st. Simple. 2dly. Mixt.

ift. Sim-

orvines compounded, contain of in the be supposition of subsigling by temper as of substancy; such as are car segue

MR. LOCKE'S ESSAY, &c. 247

1st. Simple modes are the feveral different manners, under which any fimple idea may appear to the mind: and these either come in,

- 1. By fensation only, as the several modes of space, a yard, a furlong, a mile; or those set out by vifible marks and boundaries, as the feveral places of bodies; or the feveral modes of numbers, as a score, a groce, a dozen.
- 2. By reflection only, as the several modes of thinking: which are either,
 - (1.) Without pain or pleasure; or,
 - (2.) With it.
- (1.) Without pain or pleasure: and whoever observes his mind, will

R 4

find

find a perpetual revolution of ideas while he is awake. The stopping any of them, and confidering it on all fides, we call Attention; the letting the mind run adrift, in the constant rotation of ideas and objects before us, is called Remission: and there are in the mind constant degrees of attention and remission, according to the different degrees of confideration the mind employs concerning the objects before it.

(2.) The modes of thinking with pleasure and pain; and these are called the Passions. The pleasure we find in any idea prefent and abfent, we call Love; the pleasure we find in the thought of any future enjoyment, that we think probable to affect us, we call Hope; the pleafure we find upon the near approach of any pleasure, of whose possession

we think ourselves assured, we call Joy. Whatfoever does, or is like to affect us with pleasure, we call Good; the thought of pain, which any thing present or absent is apt to produce in us, we call Hatred or Aversion; the uneasiness we find upon the absence of any thing, that might affect us with pleasure, we call Defire: the uneafiness of mind upon a good loft, which we might have longer enjoyed, we call Sorrow; the uneafiness of mind upon the thought of future pain, we call Fear: the uneafiness of mind on the thought of a good we defire, obtained by another, we call Envy; if fuch good relates to the enjoyment of men and women, it is called Jealoufy; a fudden uneafiness of mind on a fudden pain produced in us by another, together with a certain purpose to produce pain in return,

is called Anger; if constant, and the purpose of returning pain be continuing, it is called Malice; the uneafiness, that arrives from the thought of any unattainable good, we call Despair; whatsoever causes pain, or is likely to produce it in us, is called Bad or Evil.

- Simple modes coming in by fenfation and reflection: hence we have the ideas,
 - (r.) Of power.
 - (2.) Of time.
 - (3.) Of eternity.
 - (4.) Of infinity.
- (1.) The idea of power: which is formed from the ability, that we find in ourselves of stopping any idea in the revolution of any ideas within

within us; or the power, by a thought, of moving our bodies, which is called the Will; the power of acting, or not acting, according to fuch determination of a man's own thought, is called Liberty: fo that liberty is the absence of all impediments that hinder acting or not acting, according to the preference of his own will. That which moves the will, is Uneafiness; but such motions may be controuled by the power we have within us of omitting any action, till we have confidered it's consequences, and find them either good or evil. wherein confifts Innocence, is the acting or not acting, according as the judgment, upon a due and impartial confideration, doth find fuch act or omission to be good or evil: and the not fuspending such action till

till we have confidered it as we might do, is called Guilt.

The idea of power from sensation is, when there is any alteration in our simple ideas, by the action of bodies one upon another; that body, which makes the alteration, we conceive to have the power of making it, and the other a power of receiving it.

- (2.) Of time; which is a certain revolution of ideas in our own mind, measured by the motion of things without, and chiefly by the motion of the heavenly bodies, as being more constant and equal.
- (3.) Eternity is the repetition of fuch feveral revolutions, together with a reflection on our own power to add on, without coming to an end.

(4.) In-

(4.) Infinity is the fame repetition of our ideas of space or number, with a reflection on our power to add on, without coming to an end; and such repetition of our idea of space, is by a peculiar name called Immensity.

2dly. Of mixt modes; which are feveral distinct simple ideas united into the same combination by the mind, and are therefore called Notions, as a lie, obligation, law, &c. And these the mind unites for greater dispatch in the business of civil life; and therefore only considers the possible union of such simple ideas, whether it has ever seen them so actually united or not.

II. The ideas of substances: and these are either,

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1st. Separate; or, 2dly. Collective.

is the union or co-existence of several simple ideas in one and the same place, which is all the notion we have of substance: thus the union of the idea of extension, solidity, sigure, and a disposition to produce the idea of colour in us, is what we call Body. The union or co-existence of the ideas of perception, reslecting, chusing, and self-motion, is what we call Spirit: but what are the substrata of these properties and powers, are to us equally unintelligible.

2dly. The collective ideas of fubftances; which is when feveral fubftances are collected into the fame repreMR. LOCK E'S ESSAY, &c. 255 representation, as an army, triumph, procession, &c.

III. Of relations; which is the comparing of feveral ideas, whether fimple or complex, or of modes and fubstances, one with the other; and confidering the denominations that may arise from such comparison: for fince the order of nature is fuch, that there is a dependence of things one upon the other; fo do they convey to the mind an idea of fuch dependence: and whatever notion we have from fuch dependence of things one on the other, or of the connection or repugnance of ideas one to the other, gives us the idea of relation.

All words that refer to a certain standard, either of duration or size, are relative terms, as old, young, strong, weak, &c. which relate to the

the usual duration or constitution of each living creature, as the standard to which we compare the thing mentioned. The most noted relations are these:

Ist. Of cause and effect.

2dly. Identity and diversity.

3dly. Moral relations.

4thly. The relations of our ideas themselves.

Ist. Of cause and effect. That which produces any simple idea in us, we call Cause; and that which is produced, we call the Effect.

2dly. Of identity and diversity. And here the identity of bodies arises from the sameness of the parts, which produce the same simple ideas in the beholder. The identity of vege-

vegetables arises from the same organization of the parts, whether exactly consisting of the same matter or not. The identity of animals consists in the same organization of parts, and the same constant and continued common life; and that life consists in the same faculties and power of acting. And the identity of person, mind, or spirit consists, as far as we can apprehend it, in having the same consciousness of ideas, powers, and actions.

3dly. Of moral relations. The notion of which arises from our comparing our actions to a rule; and that is threefold:

- 1. The laws of the country.
- 2. The laws of opinion, or reputation.

- 3. The law of God; which is twofold:
- (1.) The law of nature; which is the rule which reason discovers to us touching the fitness, or conveniency of any action.
 - (2.) The law revealed.

4thly. The relations of our ideas themselves: and they relate either,

- 1. To the perception of our own minds; or,
- 2. To the things they are fupposed to represent.
- 3. Of the casual relations of such ideas one to another, obtained in the mind.
- 1. Of ideas relating to the perception of our own mind: and they are faid to be either,

(1.) Clear;

- (1.) Clear; or,
- (2.) Confused.
- (1.) A clear idea is that, wherein the mind perceives a difference from all others.
- (2.) A confused idea is such, as is not sufficiently distinguishable from other ideas different from it.
- 2. Of ideas relating to the things they are supposed to represent; and they are,
 - (1.) Real, or fantastical.
 - (2) Adequate, and inadequate.
 - (3.) True, and false.
- (1.) Of real, or fantastical ideas.

 All our simple ideas are real, being produced by the operation of things in us. Mixt modes are all real, s 2 being

being a combination made by the mind; if the co-existence of such ideas be only possible. The ideas of substances are real, if we have ever found such simple ideas come into our mind so united; if otherwise, they are fantastical.

(2.) Of adequate, and inadequate ideas. Adequate ideas are fuch, as perfectly represent those archetypes or patterns to which the mind refers. Inadequate ideas are a partial and incompleat representation of fuch patterns. All fimple ideas are adequate. All mixt modes are adequate; because they refer to no archetypes or patterns, but only to a certain combination made by the mind: but fo far they may be inadequate, as they refer to a supposed combination, made in the minds of other persons, signified under the fame

MR. LOCKE'S ESSAY, &c. 261 fame name. All ideas of substances are inadequate; because they have reference to patterns, whose real essence we know not.

- (3.) Of true, and false ideas. Ideas are faid to be true, that are conformable to some real existence; and false, that have no conformity to fuch existence any where found: and fo our ideas are faid to be true, when they are conformable to the ideas fignified under the same name by others.
- 3. Of the cafual relations of fuch ideas one to another, obtained in the mind. And this is by custom. As the putting together of ideas, according to their apparent or probable agreement or disagreement, is reasoning; and the connecting repugnant ideas, is madness: so the

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connecting independent ideas by custom, which have no visible connection in themselves, is an infirmity in the mind that wants a name; as where a man has the imagination of an infallible man by education and custom; these and such like false associations of ideas by habit and custom, make a perpetual connection between them in the mind; so that they perpetually appear together in the same gang, and as much affect our reasonings, opinions and judgment, as if they were naturally united.



OF LANGUAGE.

Men were not created to live folitarily, and independently on each other, as several kinds of brutes do; but

but for mutual intercourse and society: and therefore it was not enough for nature to furnish the mind with objects from without. which are invisible in the mind; but it was also necessary that we should be furnished with a ready method of communicating fuch ideas: and this was by the fense of hearing; whereby we are capable of receiving feveral founds, and of connecting them with the ideas in the mind: and farther are by the tongue capable of making fuch founds, as figns of fuch ideas: fo that language is nothing else, but the connection of founds to ideas, in order to make the ideas in the mind of one man understood by another. But because several objects excite in us the fame ideas, therefore names in language are made general, to excite in the hearer fuch an idea as is

framed in the mind of the speaker, from whatsoever particular object fuch idea was formed in the mind of the speaker; for in connecting the found of the idea, the mind hath no farther confideration than of the idea itself, as it stands in the mind of the speaker, by whatsoever thing from without it was formed in him: and were it otherwise, it were impossible to register the particularity of things, and accommodate names to them; fince scarce any man hath the same idea from the fame particular object, which another has. Befides that, if names were as particular as things, fuch figns would become altogether ufeless; since the particularity of things are infinite, and therefore would incumber the mind with infinite names, which could not be remembered, nor would be of uſe

MR. LOCKE'S ESSAY, &c. 265 use for intercourse and communication.

In language four things are confiderable.

ist. The expression of independent ideas.

2dly. The expression of the connection and repugnancy of ideas.

3dly. The imperfection of language.

4thly. The abuse of it.

Ist. Of the expression of independent ideas; and that is threefold:

- 1. Of fimple ideas.
- 2. The names of mixt modes.
- 3. The names of substances.

1. Of

- 1. Of fimple ideas: which cannot be defined or explained per notiora; fince definition is refolving the thing to be defined into it's most simple ideas: but complex ideas may be defined, because they may be resolved into their simple ideas; and simple modes may be defined, being the manner in which these simple ideas are combined; and therefore the mind may define such precise combination.
- 2. The names of mixt modes: and they being arbitrarily made in the mind, for the ends of civil life, and names added to them for difpatch in conversation, we may define the particular combination of which they consist; and being made without any relation to archetypes without, it is the name that holds together the combination.

3. The

3. The names of fubstances: and here the name stands for the precise collection of simple ideas in the mind of the speaker, which is the nominal essence; though it has a relation to something without, capable of raising that precise collection of ideas in the mind, which are the patterns or archetypes of such nominal essence; but the real essence, which is the internal constitution of parts, on which such properties depend, is perfectly unknown, and therefore not express in the name.

2dly. The expression of the connection and repugnancy of ideas; and this is three ways:

1. By inventing words of affirmation and negation, to be figns of the expression of such connection and repugnancy.

2. By the invention of abstract and concrete terms.

The abstract term or substantive, is the sign of an idea independent on any other.

The concrete term or adjective, is the expression of the idea, with the relation of it's co-existence with others.

3. By the invention of particles; which are figns that connect the train of ideas one to another, that they may be received into the mind of the hearer in the fame order, in which they stand in the mind of the speaker.

MR. LOCKE'S ESSAY, &c. 269 3dly. Of the imperfection of language: and here,

- 1. Of fimple ideas: and there the connection is made between the name and the idea, by fhewing the object which exhibits it; and therefore here we are not very liable to mistake, since these ideas are regularly produced from things without; and therefore the same ideas are formed in all men, having the same organs: and there is no difference between the archetypes and the idea, the objects without regularly creating that idea in the animal, to which the name is annexed.
- 2. The names of mixt modes are often subject to perplexity and confusion, when there is great variety in the same combination; so that the simple ideas, of which the name con-

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confifts, cannot be remembered, and because we cannot go to archetypes to correct their mistakes about them.

3. The names of fubstances are liable to great imperfections, because we know not the real conftitution of things; and therefore cannot understand what precise combination of simple ideas is coexistent, which have all the same right to be made a part of the nominal essence.

4thly. The abuse of words.

- 1. By using words without ideas.
- 2. By varying the combination of ideas, and keeping the same name; by referring words to the reality of things,

MR. LOCKE'S ESSAY, &c. 271 things, and not to our own ideas; by putting together fuch ideas in our minds as united in things without us, as have not come in coexistent.

The remedy of these abuses is, by defining the precise combination of ideas to which the name is annexed, and using the words invariably for the same combination of ideas.

Having thus confidered our ideas, which are the materials of our knowledge; and our language, which is the manner of our conveying them to others: the last thing is to consider, how our ideas are put together, and compared one with the other: and herein,

I. Of Knowledge.

II. Opinion.

III. Reason.

IV. Error.

V. Faith. And

VI. Enthusiasm.

I. Of knowledge. Knowledge is the comparing of two or more ideas, and viewing their connection and agreement, repugnancy or difagreement; and it is twofold:

if. Either intuitive; or, 2 2dly. Demonstrative.

1st. Intuitive knowledge is where the agreement or repugnancy of several ideas appears upon view.

2dly. De-

adly. Demonstrative knowledge is where the agreement or repugnancy of ideas doth not appear upon view, but by comparison with some intermediate idea. Thus we demonstrate that all the angles of a triangle are equal to two right angles, by setting the triangle between parallels, and comparing the angles at the upper point of intersection with the angles of the triangle, and two right angles.

The agreement or disagreement of our ideas, is of four forts.

- 1. Of identity, or diversity.
- 2. Relation.
- 3. Co-existence.
- 4. Real existence.
- Identity, or diverfity, is known
 T by

by intuition, as we know by view that one colour or magnitude is not another.

- 2. The ideas of relation are known from view, or demonstration, as in the instance before mentioned.
- 3. Co-existence, or non-co-existence, is seldom known from the general comparison of our ideas; for since we do not know the real substances of things, we do not know what ideas are compatible with each other; and therefore here we have no knowledge from the general consideration of our ideas, but from trial, observation, and experience only.
- 4. Real existence; and here we have knowledge,

(1.) Of

- (1.) Of ourselves, by intuition or view.
- (2.) Of the being of a God, by demonstration, as thus: The abfence of being cannot produce being; ergo, fomething eternal. Abfence of thought cannot produce thought: we think; ergo, there is thought without beginning. Eternal thought we call God. We begin to think; ergo, not from matter, where there is no thought; ergo, the mind created by eternal thought. And whatever could produce a being to fee and feel, must be presumed, as a less effect of his power, to produce the things felt and visible.
- (3.) We have the knowledge of the being of all other things by fenfation.

Having thus confidered the ob-

276 AN ABSTRACT OF jects of our knowledge, the next things to be confidered are,

Ist. The extent.

2dly. The reality. And

3dly. The universality of our knowledge.

- 1st. The extent of our knowledge; and that is,
- 1. No farther than we have ideas. And,
- 2. No farther than we can find their agreement or difagreement, by the comparing them with intermediate ideas, by which their agreement or difagreement may appear.

2dly. The reality of our knowledge. And though our knowledge be only of ideas, yet these ideas having

ing relation to objects without us, it is in some measure real: for all fimple modes being the product of the operation of things themselves upon our own minds, all our knowledge about them must be real knowledge. Mixt modes are intended to have relation to ideas in our own minds; and therefore our knowledge concerning them has no other reality, but upon the supposition of the existence of such modes, conformable to our ideas. knowledge of fubstances are so far real, as we put together ideas coexistent in the same place, and that have come into our minds thus united: but as far as we refer them to the real internal constitution of things, so far our ideas of substances are not real; because their constitutions are unknown to us. Truth therefore in the mind is the inward

per-

perception of the agreement or difagreement of our ideas, together with a like perception of the past, present, or future existence of the things themselves so conjoined or feparated in nature. In this definition of truth is comprehended a twofold certainty: a certainty of knowledge, which is the perception of the agreement or disagreement of our own ideas: a certainty of existence, which is a perception of the things themselves existing, conjoined or separate, as we have put them together: truth in words is the conjoining the figns of the ideas together, as the ideas themselves lie in the mind of the speaker.

3dly. Of the universality of our knowledge. In simple ideas, where the real and nominal effence is the same, there all our knowledge is general

ral and univerfal; because there is no difference in these ideas, from what-soever objects they are formed. In mixt modes our knowledge is general and universal: for these being combinations made by the mind, not with relation to an actual, but only a possible existence, all our knowledge concerning them is universal; since the same agreement or disagreement must happen wherever they are found.

Our knowledge of substances, as far as relates to their real essence, is all particular; fince it goes no farther than our trial and observation, which is only particular, touching the bodies before us; but not knowing the real and internal constitution of things, we cannot rank them into any general forts, or classes, under general names; and therefore

we are not capable of any univerfal knowledge about them. For to make univerfal propositions, it is necessary that we should know the absolute set bounds of each particular thing that we comprehend under that general name; and that we cannot know, without looking into the internal constitution of things; which in this state and condition we cannot do: but touching the nominal effence of fubstances, we may make univerfal propositions; but these are only identical and trifling, and fignify no more than the feveral ideas we comprehend under that name: as when we fay, gold is yellow, fufible, fixed, &c. that the whole is equal to all it's parts taken together; that whatfoever is, is; and that it is impossible for the same thing to be, and not to be. three last, however they have got the

the reputation of maxims, are nothing else but identical propositions, including what we comprehend under the name of whole or being; as the other comprehends what we include in the name or term of gold; by consequence, such maxims are of little use to the invention of knowledge, but may serve for conviction of such as affectedly wrangle or oppose.

II. Opinion is the perception of the probable agreement or difagreement of our ideas. Probability is where the connection or agreement, or the repugnancy or difagreement, is not found from the intuition or view of the ideas themselves, or from the intuition of any idea to which they are compared, which by such intermediate view shews such connection or repugnancy; but such agree-

agreement or disagreement is found by observation and experience only, which could not be found from any view or juxta-position of the ideas themselves in our minds. Thus we know that our meat nourishes, not from any general ideas of the internal constitution of meat, and of the animal, but because we have found it to be true from experience only. But here we must consider,

ift. The feveral criterions or marks of probability, arifing from our own experience.

2dly. From the experience of others.

1st. The feveral criterions or marks of probability, arifing from our own experience.

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- 1. When such experience is general and universal, we no more doubt of such truths than of those that appear from the intuition of the ideas themselves; because such experience surnishes the mind with a constant perception of the agreement or disagreement of such ideas, as if it had risen from the intuition of the ideas themselves.
- 2. If fuch experience hath failed in fingle inflances, then the agreement or difagreement of fuch ideas is judged from the number of fuch inflances, one way or the other, that have fallen under our experience; for then we esteem such ideas to agree or difagree one with the other, as we have generally found to do so but every instance to the contrary, is the occasion of some doubt to the mind.

Hence

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Hence it is, that what may feem probable to one man, or in fome places, feems improbable in others, according to the difference of their observation and experience: as that water should be hard enough in winter to bear carts and horses, may feem probable in *England* and *Holland*; but would not feem probable under the line, where they were never used to such observations.

All our knowledge touching subftances goes no farther than probability; because we have no ideas of the internal constitution of such substances to compare with each other; and therefore our reasonings, touching the co-existence or nonco-existence of such ideas, is founded,

(1.) Upon the trial and experience of such their co-existence.

(2.) Up-

(2.) Upon analogy; whereby, upon the observation of the co-existence of like ideas, we judge that where such like ideas are found, there will follow the same ideas, which at other times we have found consequent upon them.

2dly. The feveral criterions or marks of probability, arifing from the experience of others.

As we judge by our own experience, so also we judge by the fight, observation, and experience of others; and this is called Testimony. And in this, eight things are considerable.

- 1. The number.
- 2. The integrity.
- 3. The skill of the witnesses.

4. Their

- 4. Their true defign and intent.
- 5. The confiftency of the parts and circumstances of the relation.
 - 6. Contrary testimonies.
- 7. The confiftency of what is attested with our own observation and experience. And,
- 8. The distance of such relaters from the fight and view of the thing which they attest; which is so far weakened as they themselves take it from others, and the thing related doth not fall under their own view and experience.

These are the criterions of probability, touching facts depending on mere human agents: but on things depending on the power of God, the seventh criterion of probability is not to be taken into our weigh-

weighing and confidering fuch facts; because our observation and experience extends no farther than the ordinary course of nature; and not to what God almighty can do in an extraordinary manner, for the confirmation of doctrines of great importance, and which he hath thought fit to reveal.

- III. Of reason; which is that faculty in men, whereby we discover the connection or repugnancy of our ideas in themselves, or their probable connection or repugnancy one to the other.
- IV. Error arifes from the cafual affociation of ideas, by habit or cuftom, or by education from our minority, otherwife than fuch ideas are conjoined or feparated in nature; or by depending blindly on the

the authority of others, without perceiving the connection of such our ideas, or the probable connection of them; and yet conjoining and separating them according to such authority, where there is no connection or repugnance in the ideas themselves; forming propositions in things of which we have no idea, by comparison of them with the ideas we have; concluding without intermediate proofs, or without sufficient consideration of them.

V. Of faith. Faith is the belief of any truth coming from God, the author of truth: and this is either,

1st. By original revelation. Or,

2dly. Traditional.

1st. Ori-

Ift. Original revelation is the immediate delivery of truth from God almighty into the minds of men; which is done in a manner to us unconceivable: for how God almighty may deliver himself in ways different from the common conveyance of knowledge, by sensation or reslection, is not by us to be understood, we having no other ways of knowledge; but that it may be done, is extremely probable, from the consideration of his infinite power.

2dly. Traditional revelation is the belief of a truth coming from God, without immediate revelation to ourselves, upon the testimony of facts, which must of necessity proceed from the power of God.

Such things revealed cannot be

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be contrary to reason; because it were absurd to suppose that God almighty should dictate one thing in the ordinary course of nature, and another by such extraordinary revelation: nor could such a revelation be believed; since the truth of it's coming from God could not be more evident, than the connection or repugnance of the ideas themselves are in their own nature.

2. Such revelation is of things above reason; that is, of such things of which reason is altogether filent: for such revelation were to no purpose, if it taught nothing at all farther than what might be found by the use of our natural faculties; though it may inforce such things as are found to be truths by our natural faculties, from considerations which could never be found out

MR. LOCKE'S ESSAY, &c. 291 out by them; and as far as it doth fo, it is above and beyond what reafon teaches.

VI. Enthusiasm is an opinion, that our own fancies and imaginations are revelations from God. And here,

ift. If fuch person cannot, by extraordinary effects coming from God, give credit to such pretended revelations, all men are left at liberty whether they will believe him or not.

adly. If fuch revelation be contrary to reason, or contrary to former revelations, attested by facts coming from God, such revelation cannot be from God; because God cannot be the author of contradictions.

u 2 3dly. If

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3dly. If fuch pretended revelation contain nothing more than what reason teaches, or what has been already taught by a former revelation, attested by the divine power; then such revelation cannot be from God, unless it be attested by sacts slowing from the same power: since we cannot suppose that to be done by God in a worse and less evident manner, which hath been done in a better and more apparent manner already.

